# Aspire M3300

# Service Guide

Service guide files and updates are available on the AIPG/CSD web; for more information please refer to http://csd.acer.com.tw

PRINTED IN TAIWAN

# Revision History

Please refer to the table below for the updates made on Aspire M3300 Service Guide.

| Date | Chapter | Updates |
|---|---|---|
| | | |
| | | |
| | | |

# Copyright



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## Conventions

The following conventions are used in this manual:

| | |
|---|---|
| **SCREEN MESSAGES** | Denotes actual messages that appear on screen. |
| **NOTE** | Gives bits and pieces of additional information related to the current topic. |
| **WARNING** | Alerts you to any damage that might result from doing or not doing specific actions. |
| **CAUTION** | Gives precautionary measures to avoid possible hardware or software problems. |
| **IMPORTANT** | Remind you to do specific actions relevant to the accomplishment of procedures. |

# Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

# System Specifications

## Features

### Operating System

- Microsoft Windows Vista Home Premium SP1 32/64bit
- Microsoft Windows Vista Home Basic SP1 32bit
- FreeDOS
- Linpus Linux Console mode
- Linpus Linux X-Windows mode

### Processor

- Socket Type: AMD Socket AM3
- Processor Type:
  - AM3 CPUs

### Chipset

- AMD RS780 + AMD SB710

### PCB

- Form Factor: Micro ATX
- Dimension/Layer: 244mm x244mm

### Memory

- Memory Type: DDR3 800/1066/1333/1600
- Support single channel 64 bit mode with maximum memory size up to 8GB
- Support un-buffered DIMM (RS780)
- DIMM Slot: 4
- Memory Max: 1GB/2GB devices technologies
  - Capacity: 1GB to 8GB Max memory support

### PCI

- PCI Express Slot Type: x16
  - PCI Express x16 Slot Quantity: 1

- PCI Express Slot Type: x1
  - PCI Express x1 Slot Quantity: 1
- PCI Slot Type: PCI 2.25V slots
  - PCI Slot Quantity: 2

## FDD

- Slot Quantity: 1
- Design Criteria:
  - Should support 1.44MB/3 mode 3.5” Devices

## IDE

- Slot Type: 40pin PATA IDE slot
  - Slot Quantity: 1
  - Transfer rate support:
    - PIO Mode: 0/1/2/3/4
    - ATA mode: 33/66/100/133
  - Storage Type support:
    - DVD ROM/DVD SuperMultiPlus

## SATA

- Slot Type: SATA slot
- Slot Quantity: 6
- Storage Type support:
  - HDD/BD /DVD-ROM/ DVD SuperMultiPlus

## Audio

- Audio Type: HD audio codec
- Audio Channel: 7.1 channel
- Audio Controller /Codec: ALC888S-VC2 HD codec 7.1
- Connectors support:
  - Rear 6 jack follow HD audio definition, example as below
  - Audio jacks color coding: should meet Microsoft Windows Logo Program

Device Requirements: Audio-0002

- 2 S/PDIF-out header (1*4)
- 1 internal speaker header (2*4)
- 1 front panel audio header (2*5)
- Add HD de-pop CKT (the attachment is the reference, please propose your solution)
- S/N ratio: 90 dB at rear output jack

## LAN

- Controller: Marvell 8071 Gigabit Ethernet controller
  - Port : 1 x RJ45 rear port for Gigabit Ethernet
- Design Criteria:
  - Should be worked under 10/100/1000Mbs environment
  - Reserved disable function on both hardware & BIOS side. Default is enabled
  - Support DASH 1.0/1.1 feature

## USB

- Controller Type: SB710
- Ports Quantity: 12
  - 4 port for rear ports
  - On-board: 4 2*5 headers ( 6 ports)
    - 4 ports for front daughter board
    - 2 ports for internal card reader
  - Connector Pin: standard Intel FPIO pin definition
- Data transfer rate support:
  - USB 2.0/1.1

## 1394

- Controller: Jmicron JM831 1394a controller
- Connector Quantity: 2
  - 1 rear 6pin IEEE1394 port

- 1 2x5pin onboard jumper

## BIOS

- BIOS Type: AMI Kernel with Acer skin
- Size: 4Mb or 8Mb
- Note:
  - Boot ROM should be included (PXE function should be built in with default and RPL function is optional by service BIOS)
  - BIOS shall auto detect FDD to avoid checksum error when boot

## I/O Connector

- Controller: Super I/O ITE 8718

## Rear I/O Connector

- 1 PS/2 Keyboard port,
- 1 PS/2 Mouse port
- 1 D-Sub port and HDMI port
- 4 USB ports
- 1 RJ45 LAN port
- 7.1 channel phone jack (6 audio jacks) for ALC888S sku

## On-board connectors

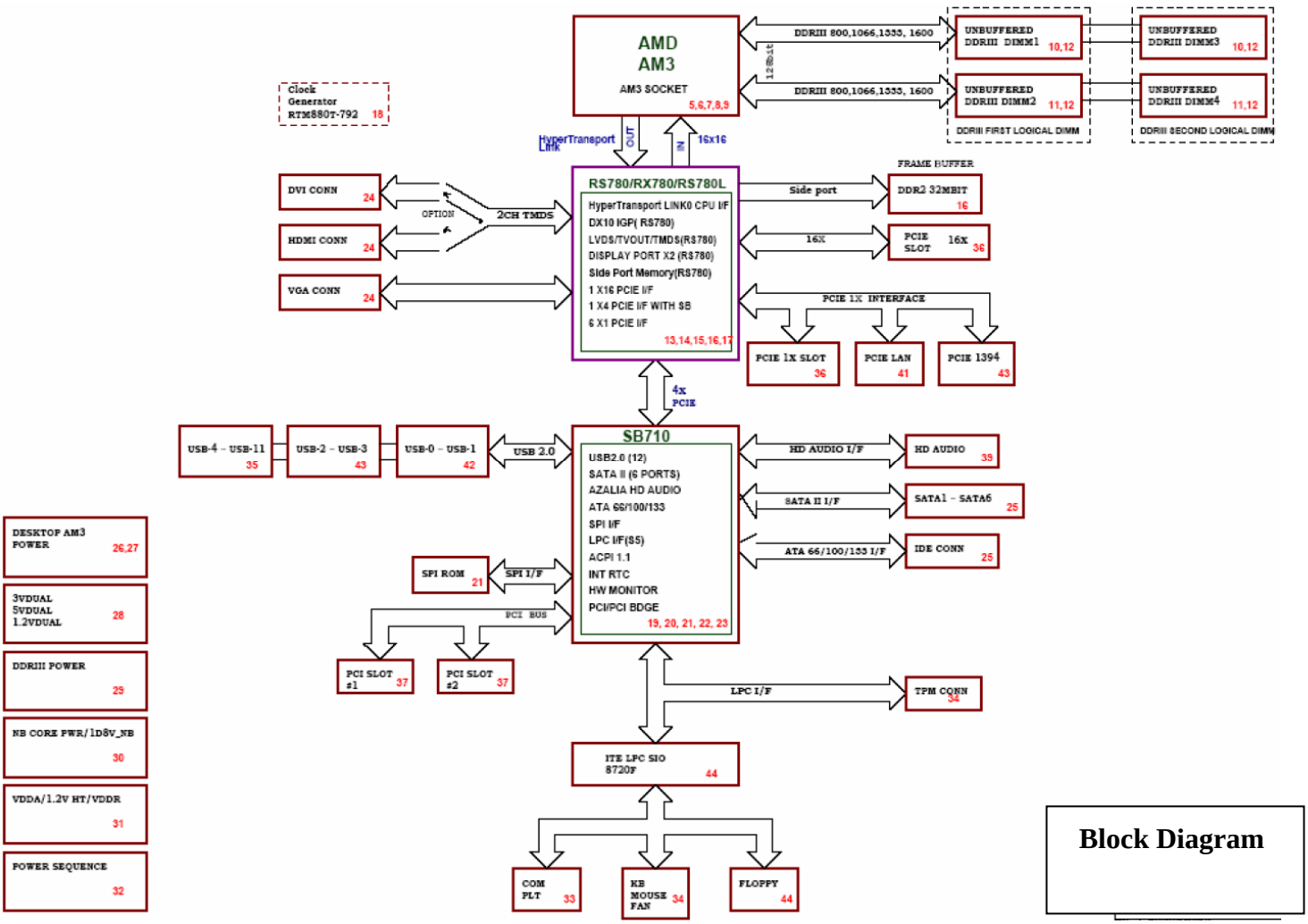
- 1 AM3 CPU socket
- 4 DDR3 memory sockets
- 1 PCI Express x16 slot
- 1 PCI Express x 1 slot
- 2 PCI slots
- 1 FDD slot
- 1 PATA IDE connector
- 6 SATA2 connectors
- 3 2*5 pin Intel FPIO specification USB pin connectors (follow Intel FPIO standard Specification)

- 1 2*5 pin Intel FPIO spec. Microphone In/ Headphone Out pin connectors
- 1 1*4 S/PDIF out header (for ALC888S sku)
- 2 3 pin CPU Fan connector
- 1 3 pin System FAN connector with linear circuit
- 1 24pin + 4pin ATX interface PS3/PS2 SPS connector
- 1 2*7 pin front panel IO header
- 1 Jumper for clear CMOS
- 1 on board buzzer
- 2 reserved 2pin GPIO connector
- Color management for on board connecter (pls provide proposal)

## Power Supply

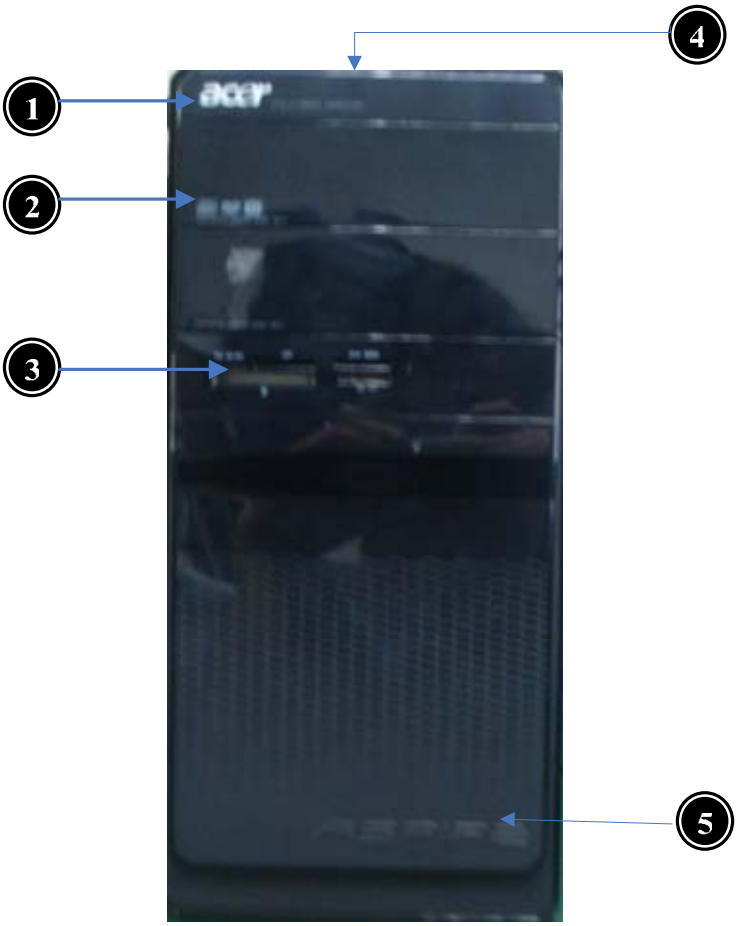
- Power Supply Mounting Features
  - Chassis accepts ATX-style power supply
  - Chasses accepts PS2, PS3 style power supply
  - Features for internal mounting tab
  - Location of 4 external mounting holes
- Power Supply Electrical Design Feature
  - 500W/250w in stable mode (Acer Assign System Power Unit)
  - Voltage design should be covered +5V, +3.3V, +12V, +5VSB, -12V (attention to 12V output capability)
  - Demand for both PFC/Non-PFC solutions (two different quotations are needed)
  - Minimum 4 Serial ATA power connector solution should be included (by default)
  - Minimum 1 big 4-pin graphic card connector included
  - Minimum small 4-pin power connector included
- Non-PFC version should provide switch selector for 115/230V AC input and universal for worldwide
  - PS2 style

# Block Diagram



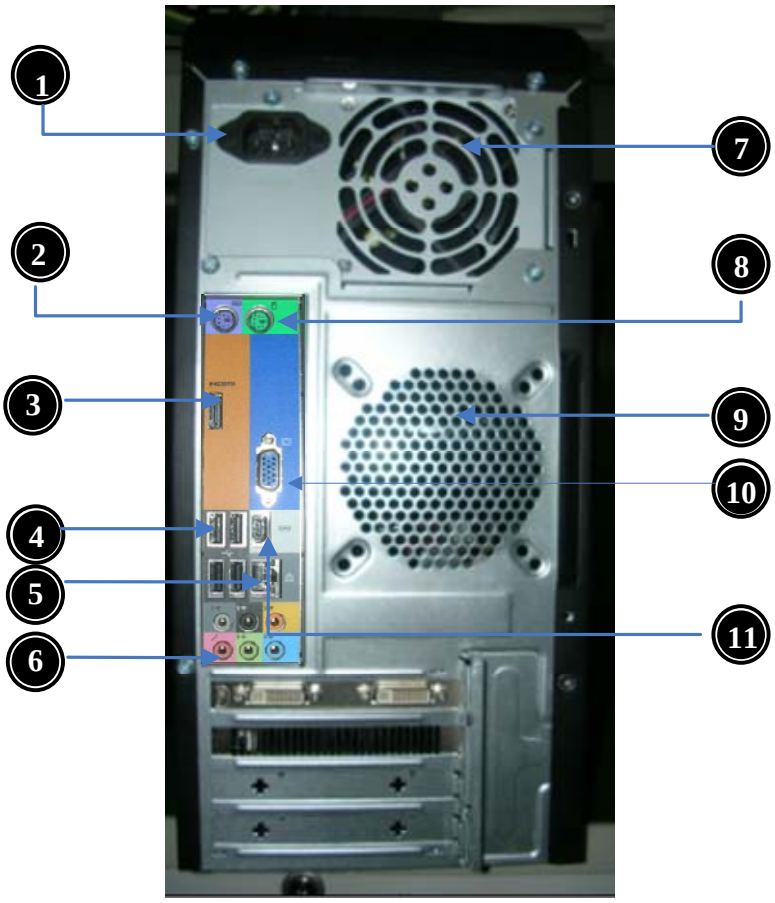
# Aspire M3300 Front Panel

The computer's front panel consists of the following:




| Label | Description |
|---|---|
| 1 | ACER Logo |
| 2 | Optical drive |
| 3 | Card reader |
| 4 | Power Button |
| 5 | Aspire Logo |

# Aspire M3300 Rear Panel




| Label | Description | Label | Description |
|---|---|---|---|
| 1 | Power card socket | 7 | Fan aperture |
| 2 | PS/2 keyboard connector | 8 | PS/2 mouse connector |
| 3 | HDMI connector | 9 | System Fan |
| 4 | USB 2.0 connector | 10 | Monitor connector |
| 5 | LAN connector | 11 | 1394 connector |
| 6 | Audio connector | 12 | |

# Hardware Specifications and Configurations

## Processor

| Item | Specification |
|---|---|
| Type | Processor Type: AM3 CPUs |
| Socket | AMD Socket AM3 |
| Minimum operating speed | 0 MHz (If Stop CPU Clock in Sleep State in BIOS Setup is set to Enabled.) |

## BIOS

| Item | Specification |
|---|---|
| BIOS code programmer | AMI Kernel with Acer skin |
| BIOS version | P03-A0 |
| BIOS ROM type | SPI Flash |
| BIOS ROM size | 4Mb or 8Mb |
| Support protocol | SMBIOS(DMI)2.4/DMI2.0 |
| Device Boot Support | - 1st priority: SATA HDD<br>- 2nd priority: CD-ROM<br>- 3rd priority: Removable Device<br>- 4th priority: LAN<br>- 5th priority: USB device |
| Support to LS-120 drive | YES |
| Support to BIOS boot block feature | YES |

## BIOS Hotkey List

| Hotkey | Function | Description |
|---|---|---|
| Del | Enter BIOS Setup Utility | Press while the system is booting to enter BIOS Setup Utility. |

## Main Board Major Chips

| Item | Specification |
|---|---|
| North Bridge | AMD RS780 |
| South Bridge | AMD SB710 |
| APG controller | AMD RS780 |
| Super I/O controller | Super I/O ITE 8718 |
| Audio controller | HD audio codec ALC888S-VC2 HD codec 7.1 |
| LAN controller | Marvell 8071/ Gigabit Ethernet controller |
| HDD controller | AMD SB710 |
| Keyboard controller | Super I/O ITE 8718 |

## Memory Combinations

| Slot | Memory | Total Memory |
|---|---|---|
| Slot 1 | 1Gb/2Gb | 1GB~2GB |
| Slot 2 | 1Gb/2Gb | 1GB ~2GB |
| Slot 3 | 1Gb/2Gb | 1GB ~2GB |
| Slot 4 | 1Gb/2Gb | 1GB ~2GB |
| Maximum System Memory Supported | | 1GB ~8GB |

## System Memory

| Item | Specification |
|---|---|
| Memory slot number | 4 slot |
| Support Memory size per socket | 1Gb/2Gb |
| Support memory type | DDR3 |
| Support memory interface | DDR3 800/1066/1333/1600 |
| Support memory voltage | 1.5V |
| Support memory module package | 240-pin DDR3 |
| Support to parity check feature | Yes |
| Support to error correction code (ECC) feature | No |
| Memory module combinations | You can install memory modules in any combination as long as they match the above specifications. |

## Audio Interface

| Item | Specification |
|---|---|
| Audio controller | RS780 |
| Audio controller type | ALC888S |
| Audio channel | codec 7.1 |
| Audio function control | Enable/disable by BIOS Setup |
| Mono or stereo | Stereo |
| Compatibility | Sound Blaster Pro/16 compatible Mixed digital and analog high performance chip Enhanced stereo full duplex operation High performance audio accelerator and AC’97 support Full native DOS games compatibility Virtual FM enhances audio experience through real-time FM-to-Wavetable conversionMPU-401 (UART mode) interface for Wavetable synthesizers and MIDI devices Integrated dual game port Meets AC’97and WHQL specifications |
| Music synthesizer | Yes, internal FM synthesizer |
| Sampling rate | 48 KHz (max.) |
| MPU-401 UART support | Yes |
| Microphone jack | Supported |
| Headphone jack | Supported |

## SATA Interface

| Item | Specification |
|---|---|
| SATA controller | RS780 |
| SATA controller resident bus | PCI bus |
| Number of SATA channel | SATA X 6 |
| Support bootable CD-ROM | YES |

## Floppy disk drive Interface

| Item | Specification |
|---|---|
| Floppy disk drive controller | Super I/O ITE 8718 |
| Floppy disk drive controller resident bus | ISA bus |
| Support FDD format | 360KB, 720KB, 1.2MB, 1.44MB, 2.88MB |

## USB Port

| Item | Specification |
|---|---|
| Universal HCI | USB 2.0/1.1 |
| USB Class | Support legacy keyboard for legacy mode |
| USB Connectors Quantity | 4 ports for rear I/O<br>4 ports for front daughter board<br>2 ports for 3.5” card reader module |

## Environmental Requirements

| Item | Specification |
|---|---|
| **Temperature** | |
| Operating | +5°C ~ +35°C |
| Non-operating | -20 ~ +60°C (Storage package) |
| **Humidity** | |
| Operating | 15% to 80% RH |
| Non-operating | 10% to 90% RH |
| **Vibration** | |
| Operating (unpacked) | 5 ~ 500 Hz: 2.20g RMS random, 10 minutes per axis in all 3 axes<br>5 ~500 Hz: 1.09g RMS random, 1 hour per axis in all 3 axes |

## Power Management

| Devices | S1 | S3 | S4 | S5 |
|---|---|---|---|---|
| Power Button | V | V | V | V |
| USB<br>Keyboard/Mouse | V | V | N/A | N/A |
| PME | Disabled | Disabled | Disabled | Disabled |
| RCT | Disabled | Disabled | Disabled | Disabled |
| WOR | Disabled | Disabled | Disabled | Disabled |

- Devices wake up from S3 should be less than
- Devices wake up from S5 should be less than 10 seconds

# Power Management Function(ACPI support function)

## Device Standby Mode

- Independent power management timer for hard disk drive devices(0-15 minutes,time step=1minute).
- Hard Disk drive goes into Standby mode(for ATA standard interface).
- Disable V-sync to control the VESA DPMS monitor.
- Resume method:device activated (keyboard for DOS, keyboard &mouse for Windows.
- Resume recovery time 3-5sec.

## Global Standby Mode

- Global power management timer(2-120minutes,time step=10minute).
- Hard disk drive goes into Standby mode(for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Resume method: Resume to original state by pushing external switch Button,modem ring in,keyboard an mouse for APM mode.
- Resume recovery time :7-10sec

## Suspend Mode

- Independent power management timer(2-120minutes,time step=10minute)or pushing extern switch button.
- CPU goes into SMM
- CPU asserts STPCLK# and goes into the Stop Grant State.
- LED on panel turns amber colour.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Ultra I/O and VGA chip go into power saving mode.
- Resume method: Resume to original state by pushing external switch Button,modem ring in,keyboard an mouse for APM mode
- Return to original state by pushing external switch button,modem ring in and USB keyboard for ACPI mode.

## ACPI

- ACPI specification 1.0b
- S0,S1,S2 and S5 sleep state support.
- On board device power management support.
- On board device configuration support

# System Utilities

**The manufacturer or the dealer already configures most systems. There is no need to run Setup when starting the computer unless you get a Run Setup message.**

The Setup program loads configuration values into the battery-backed nonvolatile memory called CMOS RAM.

This memory area is not part of the system RAM.

**NOTE:** If you repeatedly receive Run Setup messages, the battery may be bad/flat. In this case, the system cannot retain configuration values in CMOS.

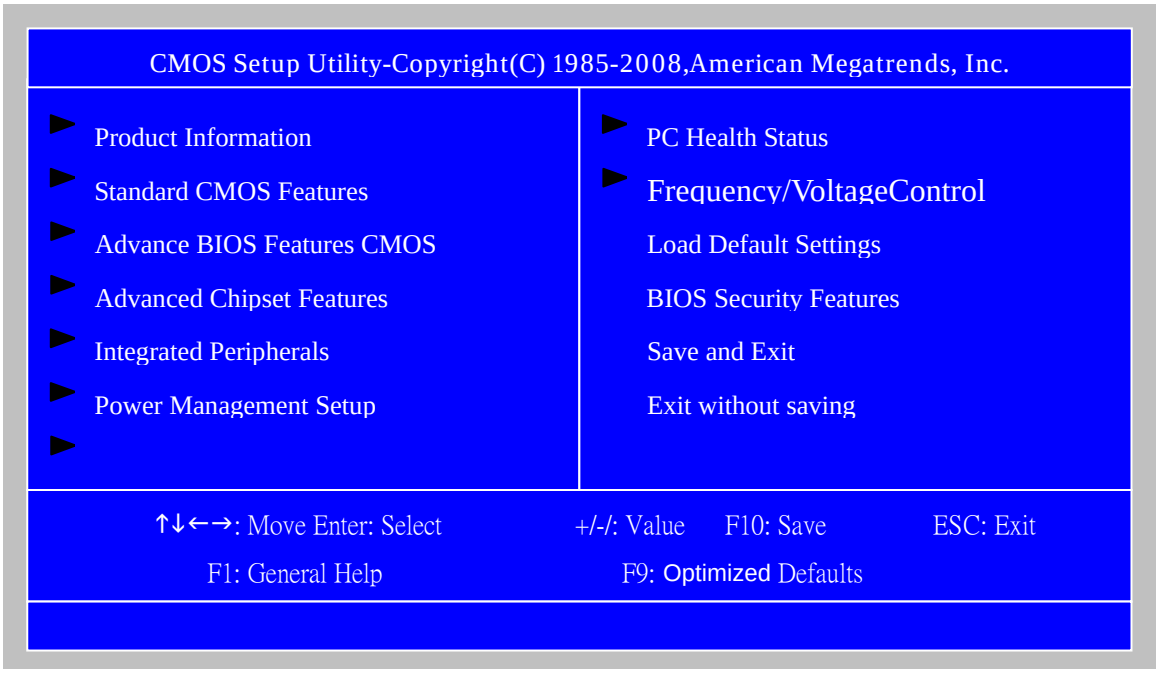
Before you run Setup, make sure that you have saved all open files. The system reboots immediately after you exit Setup.

# Entering Setup

Power on the computer and the system will start POST (Power On Self Test) process. When the message of "Press DEL to enter SETUP" appears on the screen, press the key of [Delete] to enter the setup menu.

**NOTE:** If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On. You may also restart the system by simultaneously pressing [Ctrl+ Alt+ Delete].

The Setup Utility main menu then appears:

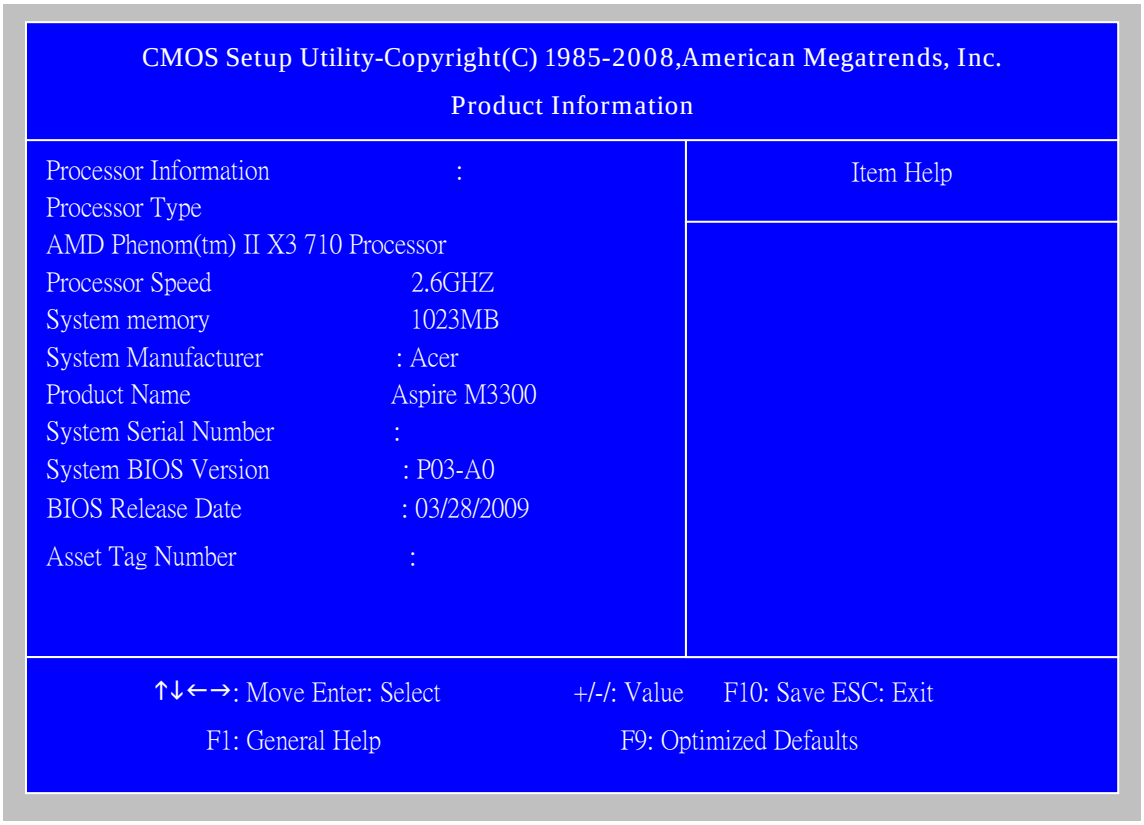


The items in the main menu are explained below:

| Parameter | Description |
|---|---|
| Production Information | This page shows the relevant information of the main board |
| Standard CMOS Features | This setup page includes all the items in standard compatible BIOS |
| Advance BIOS Features | This setup page includes all the items of Award special enhanced features |
| Advance Chipset Features | This setup page includes all advanced chipset features |
| Integrated Peripherals | This setup page includes all onboard peripherals |
| Power Management Setup | This setup page includes all the items of Green function features |
| PC Health Status | This setup page is the System auto detect Temperature, voltage, and fan speed |
| Frequency/Voltage Control | This setup page is the System Frequency/Voltage setup |
| BIOS Security Features | Change, set or disable password. It allows you to limit access to the System |
| Load Optimized Defaults | Load Optimized Settings Default Settings indicates the value of the system parameters which the system would be in best performance configuration |
| Save and Exit | Save CMOS value settings to CMOS and exit setup |
| Exit without saving | Abandon all CMOS value changes and exit setup |

# Product Information

The screen below appears if you select Product Information from the main menu: The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. This information is necessary for troubleshooting (maybe required when asking for technical support).

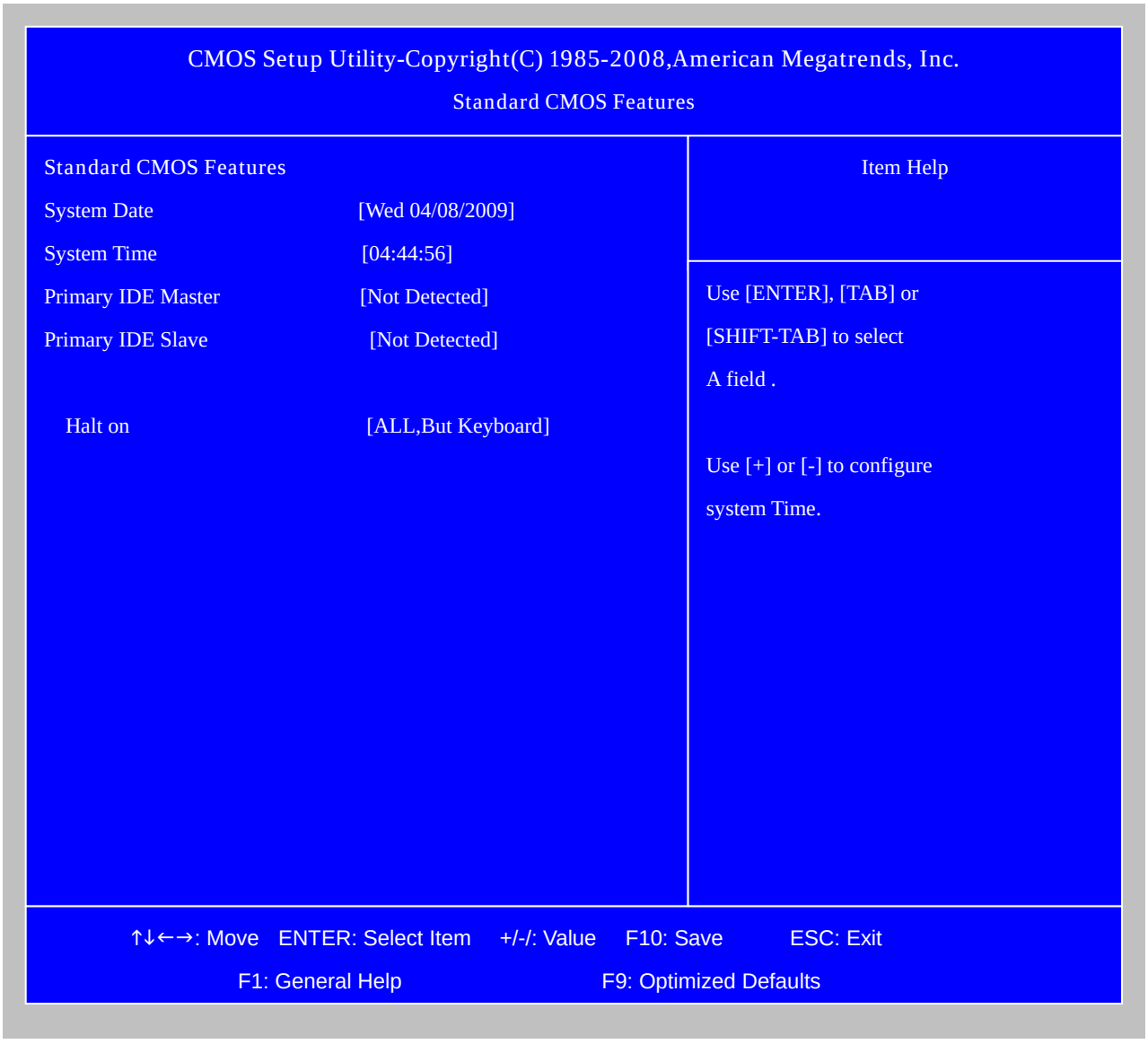



The following table describes the parameters found in this menu:

| Parameter | Description |
|---|---|
| Processor Type | This item lists the Processor Type e |
| Processor Speed | This item lists the Processor Speed |
| System memory | This item lists the System memory |
| Product Name | This item lists the product name |
| System Serial Number | This item lists the system serial number |
| System BIOS Version | This item lists the system BIOS version |
| BIOS Release Date | This item lists the BIOS release date |

# Standard CMOS Setup

Select standard CMOS features from the main menu to configure some basic parameters in your system the following screen shows the standard CMOS features menu:

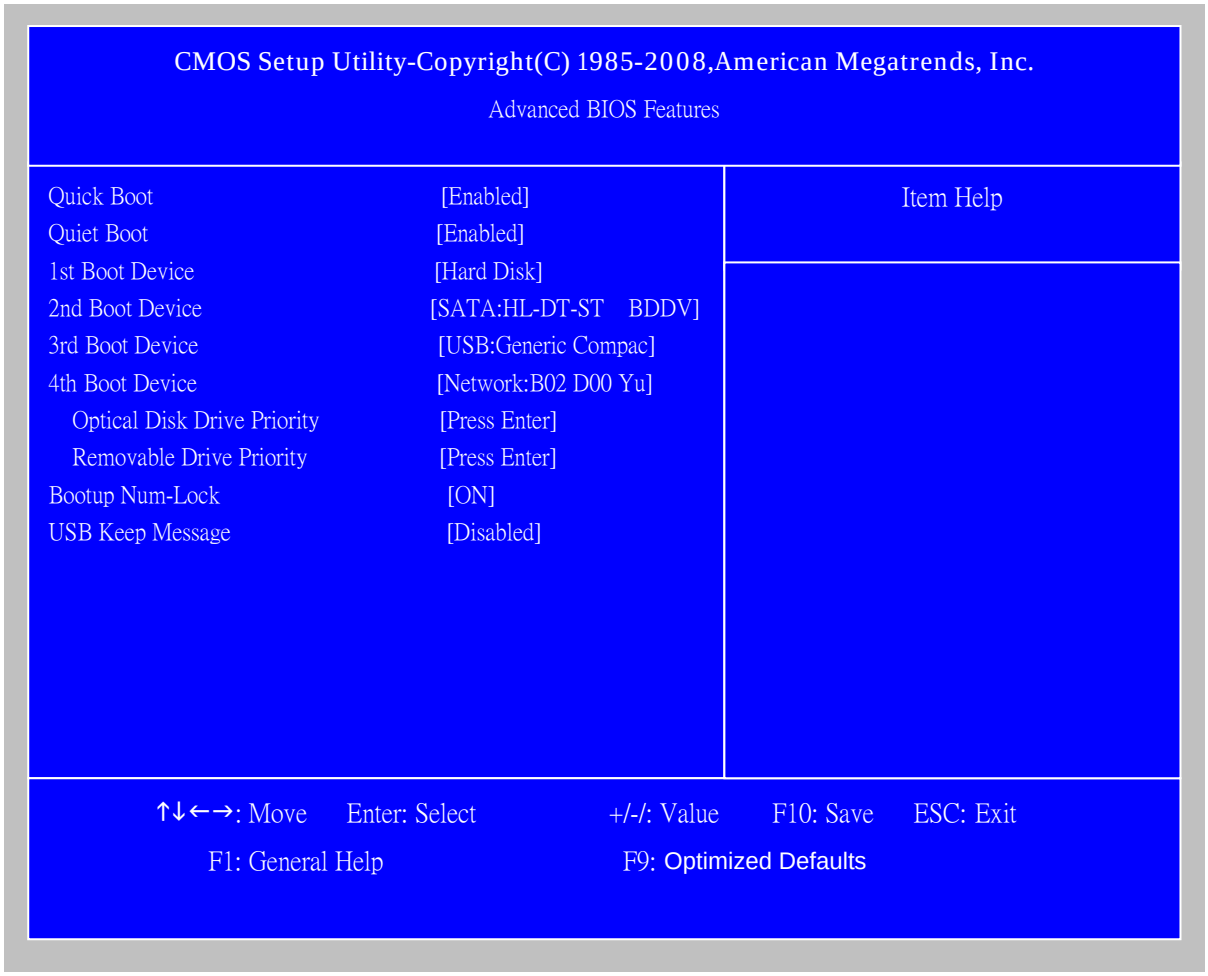


The following table describes the parameters found in this menu.

| Parameter | Description | Options |
|---|---|---|
| System Date | To set the date following the weekday-month-date-year format | Week: From [Sun.] to [Sat.]. determined by BIOS and is display only<br>Day: from [1] to [31] (or the maximum allowed in the month.<br>Year: from 1999 to 2099 |
| System Time | To set the time following the hour-minute-second format | The items format is [hour] [minute][second]. The time is calculated base on the 24-hour timer clock. |
| Halt On | This item enables use to select the situation if the BIOS stops the POST process and the notification | All Errors<br>No Errors<br>All, But Keyboard<br>All, But Diskette<br>All, But Disk/Key |

# Advanced Setup

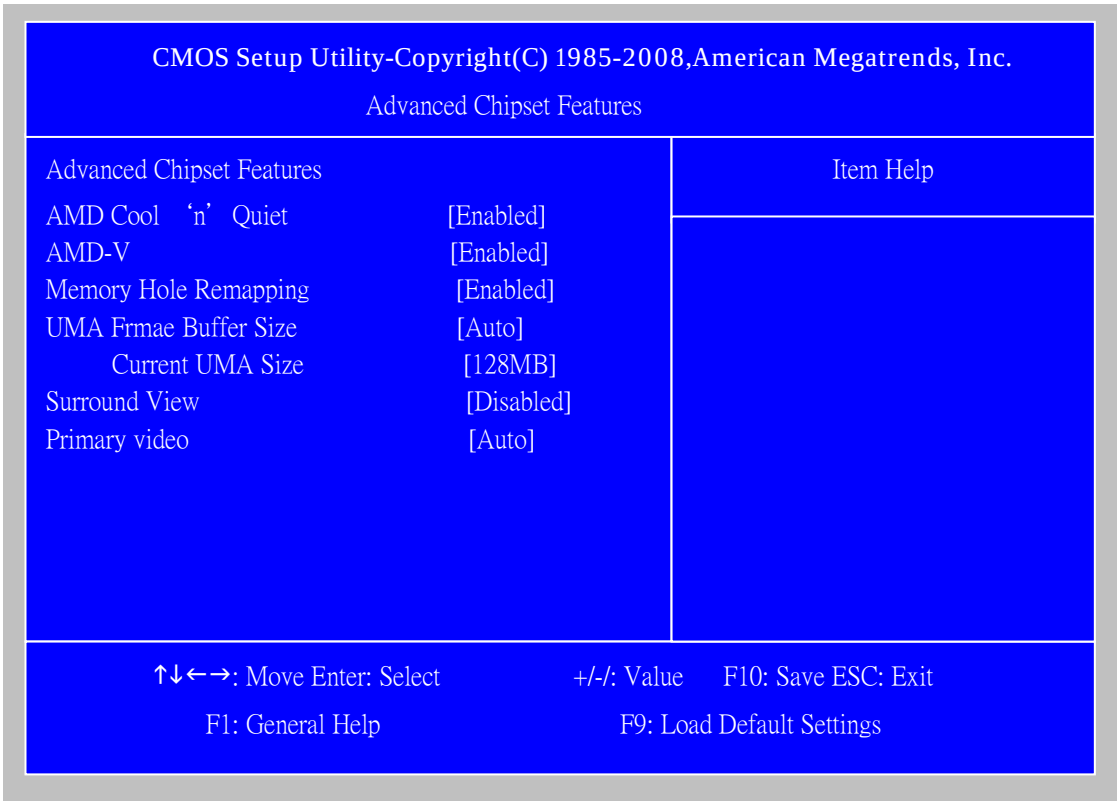
The following screen shows the Advanced Setup:



The following table describes the parameters found in this menu.

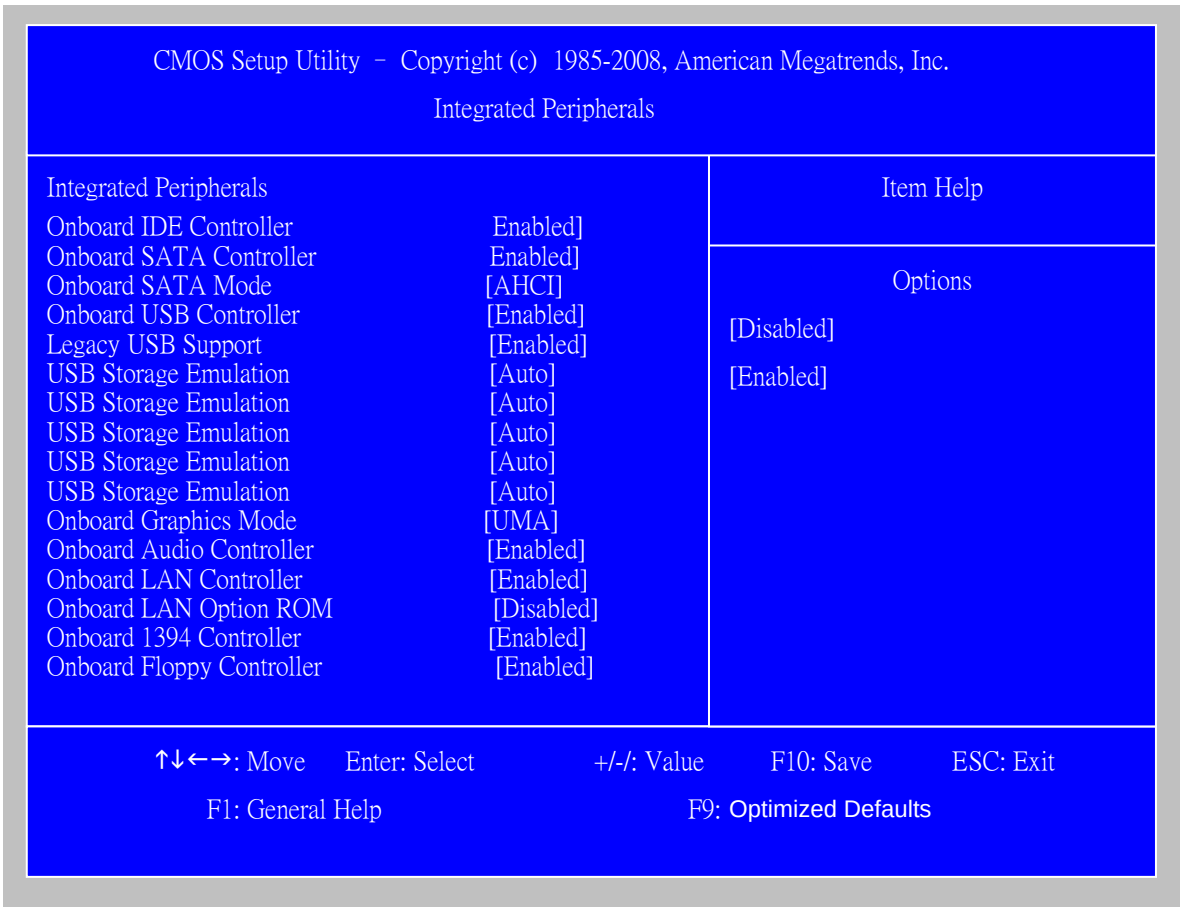
| Parameter | Description | Options |
|---|---|---|
| Quick Boot | Allows BIOS to skip certain tests while booting. This will decrease the time needed to boot the system | [Enabled], [Disabled] |
| 1 st Boot Device | The item allows you to see the sequence of boot device where BIOS attempts to load the disk operation system. | |
| 2 nd Boot Device | | |
| 3 rd Boot Device | | |
| 4 th Boot Device | | |
| Optical Disk Drive Priority | Specifies the boot device. Priority sequence from available Hard Drives | |
| | | |
| Removable Device Priority | | |
| | | |
| Boot up Num-Lock On | Select Power-on state for Numlock | On,Off |
| USB Beep Message | Enables the beep during USB device enumeration | [Enabled], [Disabled] |

# Advanced Chipset Setup




| Parameter | Description | Options |
|---|---|---|
| Memory Hole Remapping | You can reserve this area of system memory for ISA adapter ROM. When this area is reserved, it cannot be cached. The user information of peripherals that need to use this area of system memory usually discuss their memory requirements. | Disabled/Enabled |
| Primary Video | Priority for Auto : PCIE -> Onboard -> PCI | Auto/PCIE/Onboard/PCI |

# Integrated Peripherals

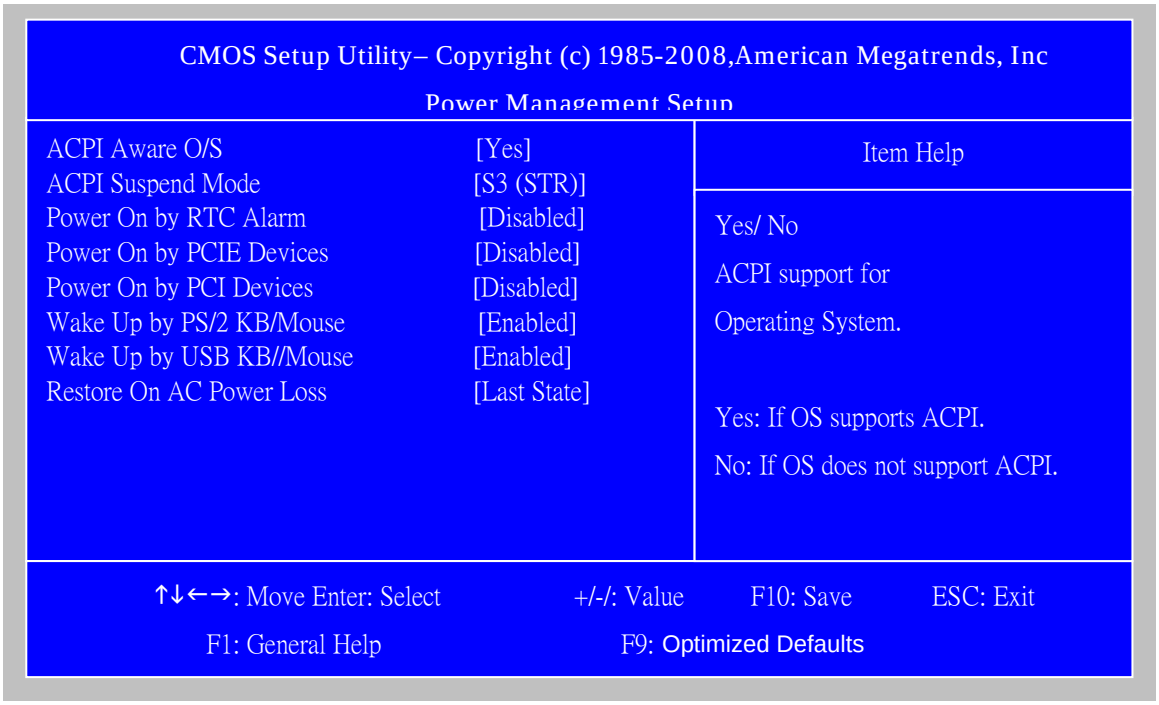


The following table describes the parameters found in this menu.

| Parameter | Description | Options |
|---|---|---|
| Onboard IDE Controller | This item is only available when onboard IDE controller is Enabled | Disabled/Enabled |
| Onboard SATA Controller | This item is only available when onboard SATA controller is Enabled | Disabled/Enabled |
| Onboard SATA Mode | This item is only available when onboard ESATA controller is AHCI Mode. | Disabled/AHCI Mode |
| Onboard USB Controller | Always enabled USB keyboard during POST no matter what option is set | Disabled/Enabled |
| Legacy USB Support | This item is only available when on board USB controller is enabled | Disabled/Enabled |
| Onboard Audio Controller | Always enabled Audio POST no matter what option is set | Disabled/Enabled |
| Onboard LAN Controller | Always enabled Audio POST no matter what option is set | Disabled/Enabled |
| Onboard LAN Option ROM | This item is only available when onboard LAN controller is enabled | Disabled/Enabled |
| Onboard 1394 Controller | Always enabled Audio POST no matter what option is set | Disabled/Enabled |
| Onboard Floppy Controller | Always enabled Audio POST no matter what option is set | Disabled/Enabled |

# Power Management

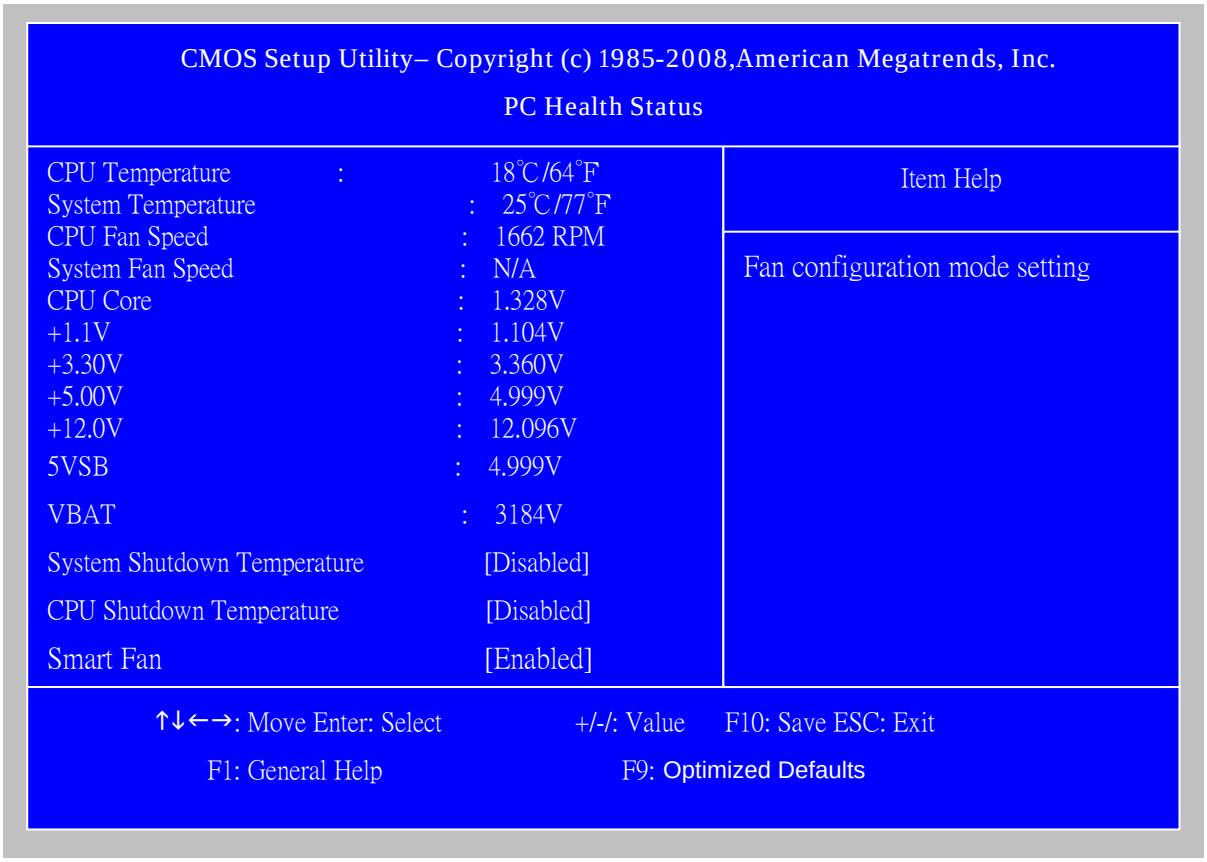
The Power Management menu lets you configure your system to most effectively save energy while operating in a manner consistent with your own style of computer use. The following screen shows the Power Management parameters and their default settings:




The following table describes the parameters found in this menu.

| Parameter | Description | Options |
|---|---|---|
| ACPI Aware O/S | Control wake up event for S1/S3/S4/S5 | No/Yes |
| ACPI Suspend Mode | | S1(POS)/S3 (STR) |
| Power On by RTC Alarm | | Disabled/Enabled |
| Power On by PCIE Devices | | Disabled/Enabled |
| Power On by PCI Devices | | Disabled/Enabled |
| Wake Up by PS/2 KB/Mouse | Control wake up event for S1/S3 | Disabled/Enabled |
| Wake Up by USB KB//Mouse | | Disabled/Enabled |

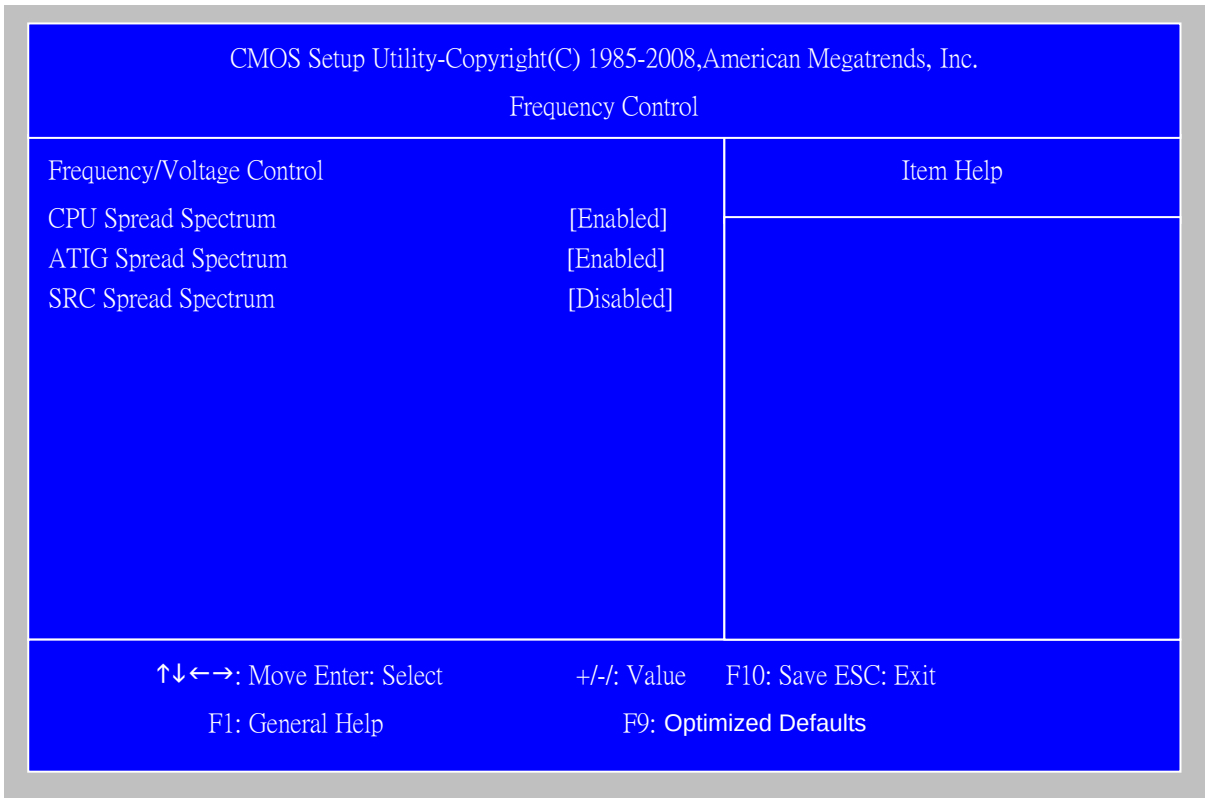
# PC Health Status




The following table describes the parameters found in this menu:

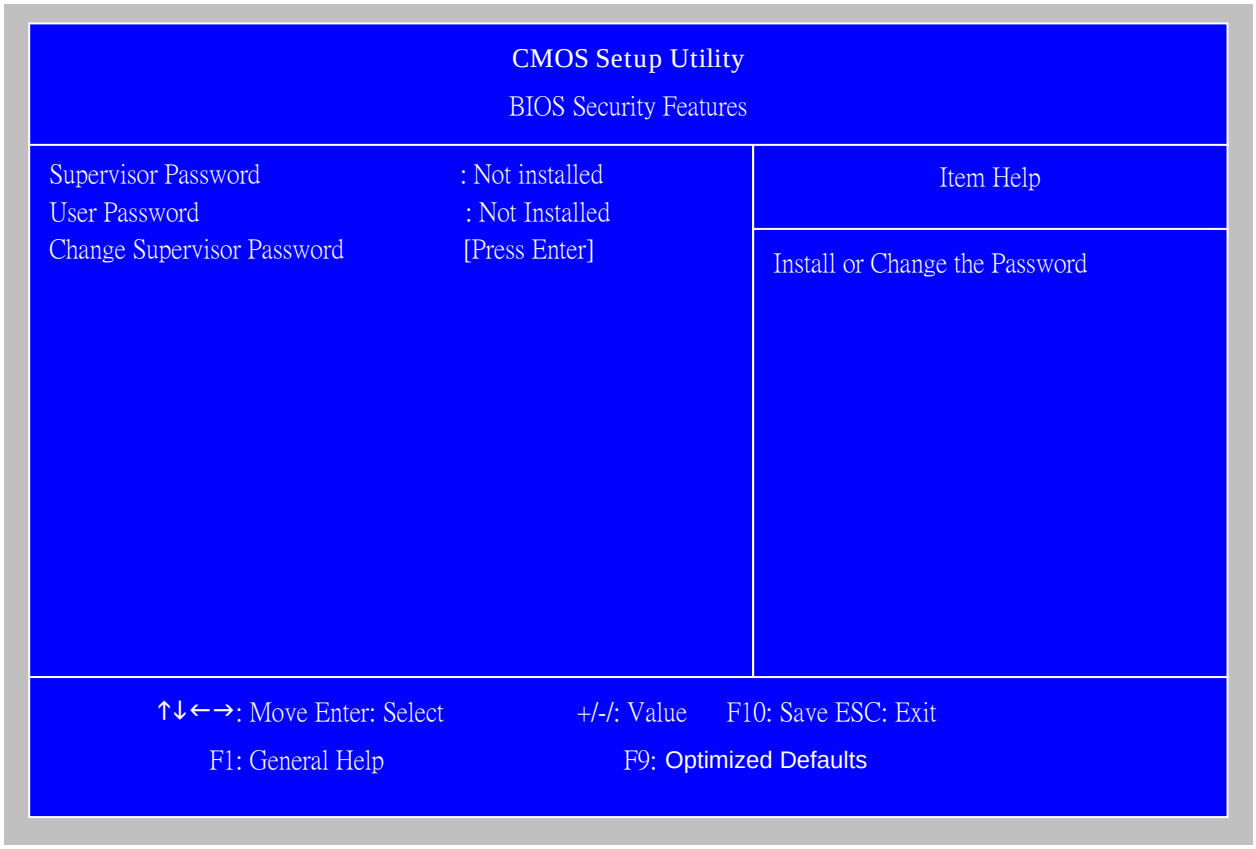
| Parameter | Description | Options |
|---|---|---|
| CPU/System Temperature | Detect CPU Temperature automatically | |
| CPU/SYSTEM FAN Speed (RPM) | Detect CPU/SYSTEM Fan Speed Status automatically | |
| System Shutdown Temperature | The item displays the system Shutdown Temperature | Enabled/Disabled |
| CPU Shutdown Temperature | The item displays the CPU Shutdown Temperature | Enabled/Disabled |
| Smart FAN | The item displays the system Smart Fan Function status. It is always enabled by system. | Enabled/Disabled |

# Frequency/Voltage Control




| Parameter | Description | Options |
|---|---|---|
| CPU Spread Spectrum | Always auto detect Spread Spectrum | Disabled/Enabled |
| ATIG Spread Spectrum | Always auto detect Spread Spectrum | Disabled/Enabled |
| SRC Spread Spectrum | Always auto detect Spread Spectrum | Disabled/Enabled |

# BIOS Security Features

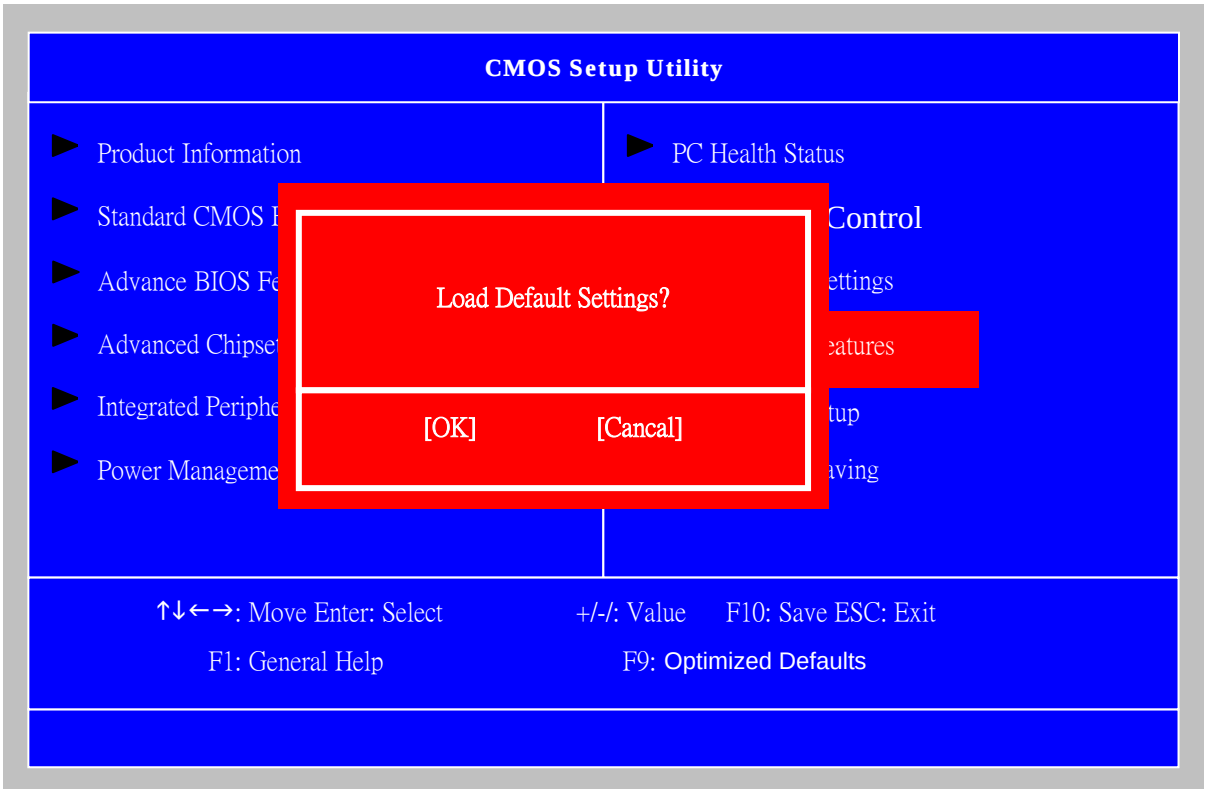



The following table describes the parameters found in this menu:

| Parameter | Description | Options |
|---|---|---|
| Change Supervisor Password | This item is only available when supervisor password is installed, If clear supervisor password, user password should also be cleared. All setup items will be view-only except user password item when login with user password | Press Enter |

# Load Default Settings

This option opens a dialog box that lets you install defaults for all appropriate items in the Setup Utility.

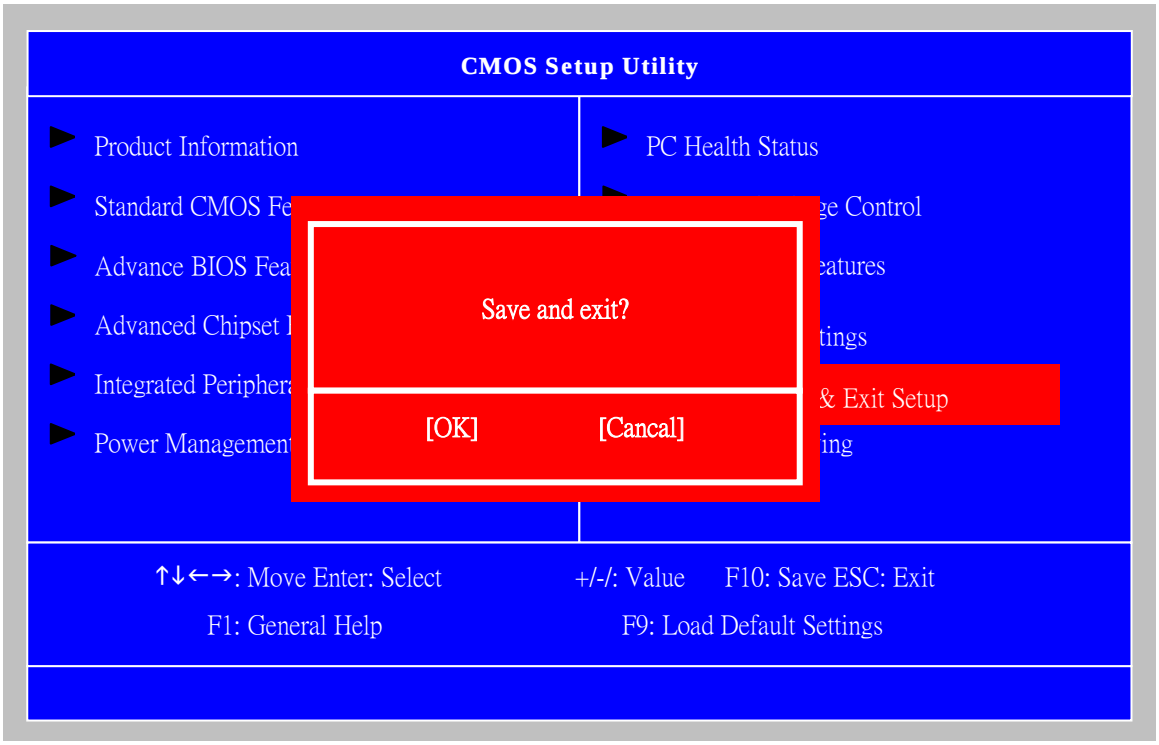



The following table describes the parameters found in this menu:

| Parameter | Description | Options |
|---|---|---|
| Load Default Settings | Select the field loads the factory defaults for BIOS and Chipset Features, which the system automatically detects. This option opens a dialog box that lets you install optimized defaults for all appropriate items in the Setup Utility. | |

# Save & Exit Setup

Highlight this item and press <Enter> to save the changes that you have made in the Setup Utility and exit the Setup Utility.

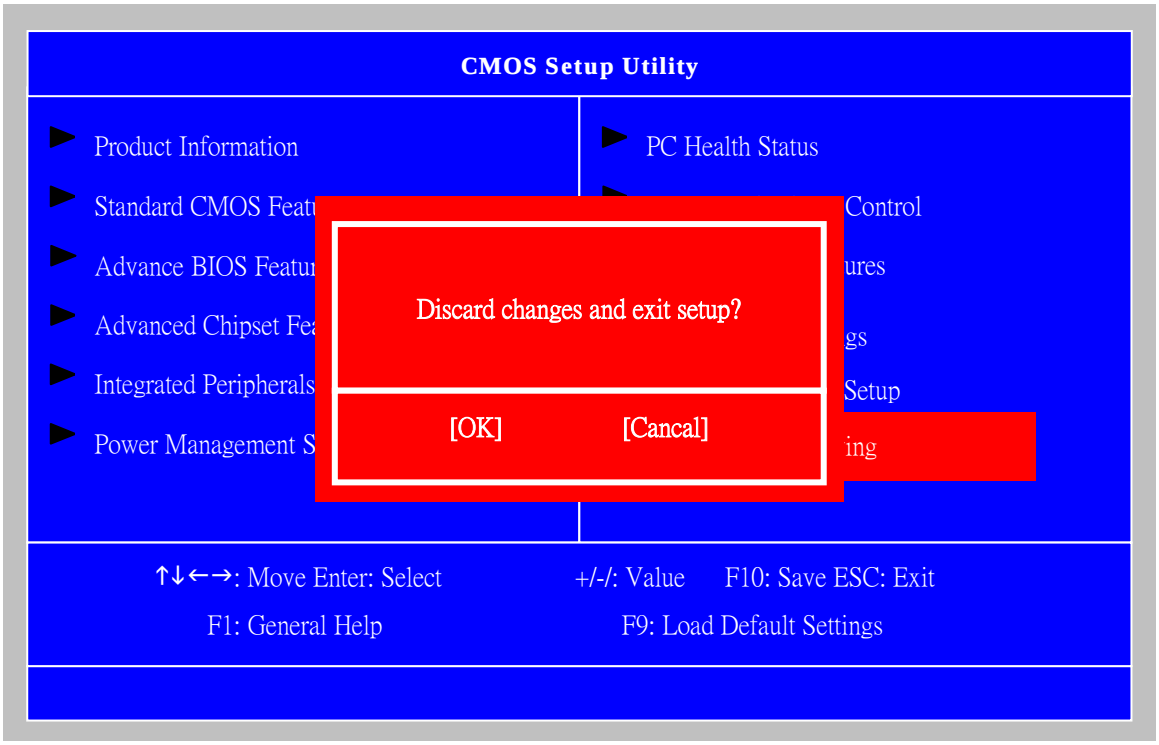



The following table describes the parameters found in this menu:

| Parameter | Description | Options |
|---|---|---|
| Save and exit | Press <Enter> to save the changes that have made in the Setup Utility and exit the Setup Utility. Press<Y> to save and Exit or <N> to return to the main menu. | |

# Exit Without Saving

Highlight this item and press <Enter> to discard any changes that you have made in the Setup Utility and exit the Setup Utility.




| Parameter | Description | Options |
|---|---|---|
| Discard changes and exit setup | Press<Enter> to discard any changes and exit the Setup Utility | |

# Machine Disassembly and Replacement

To disassemble the computer, you need the following tools:
Wrist grounding strap and conductive mat for preventing electrostatic discharge.
Wire cutter Phillips screwdriver (may require different size).
**NOTE:** The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatches when putting back the components.

# General Information

## Before You Begin

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system

# Disassembly Procedure

This section tells you how to disassemble the system when you need to perform system service. Please also refer to the disassembly video, if available.

**CAUTION:** Before you proceed, make sure you have turned off the system and all peripherals connected to it.

# aBengal II Aspire M3300 Standard Disassembly Process Bezel

## Process:

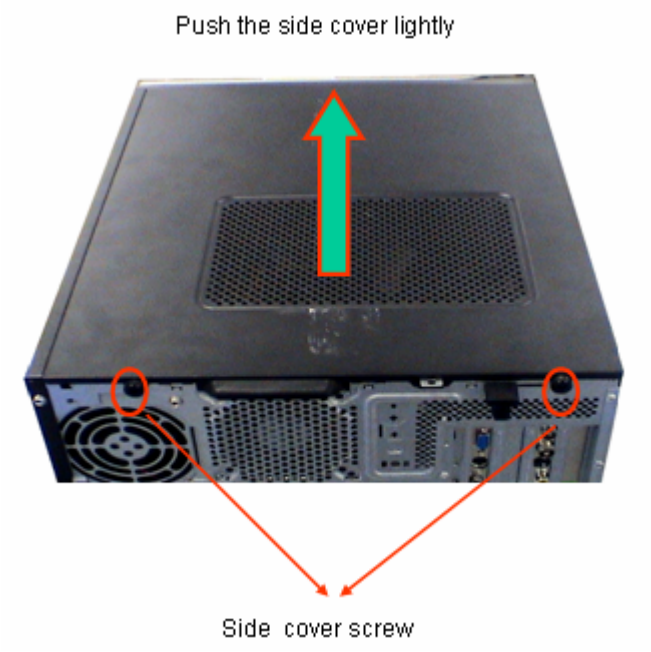
1. According to the requirement, paste ATI, OS, CPU, HDMI and marketing label by SKU.

# Remove side cover

## Process:

1. Put the Computer on the worktable lightly.

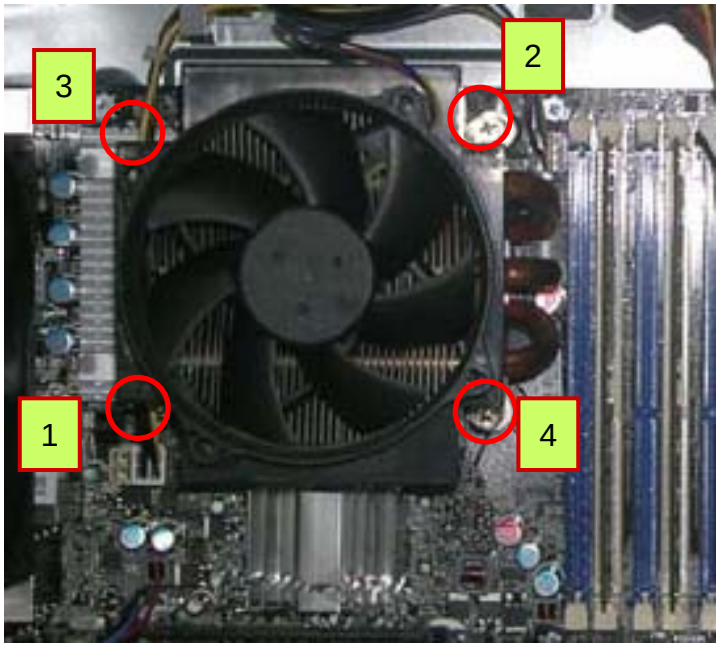
2. Release left/right side cover with 4 screws then remove left/right side cover.



# Remove CPU fan pipe

## Process:

1. Release the CPU fan pipe.

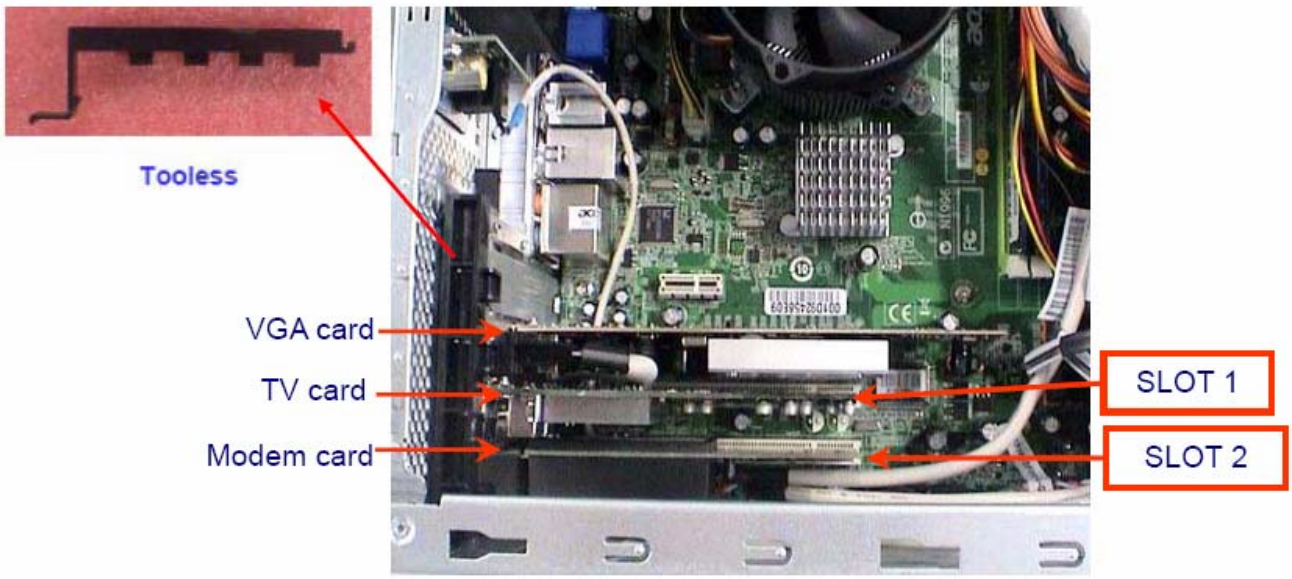



# Remove Cards

## Process:

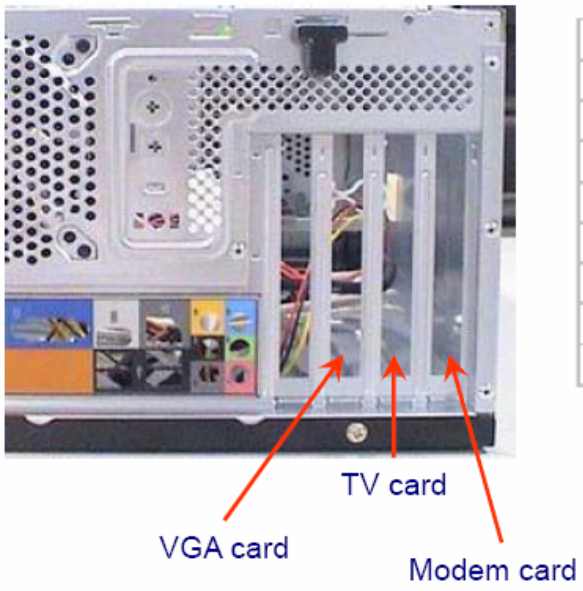
1. Release the slot cover tooless

2. Remove VGA 、TV、Modem Card,the following list is for your reference about the mutual location relation (Optional by SKU).




## *Notice:*

I. Remove card, don't touch any electric parts on PCB.

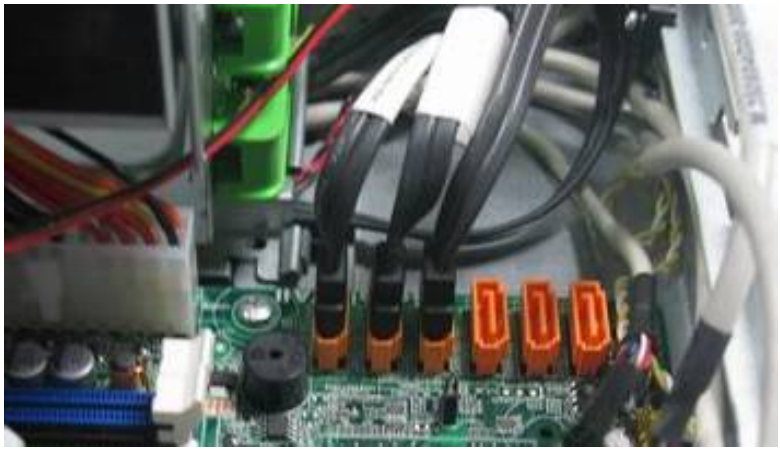


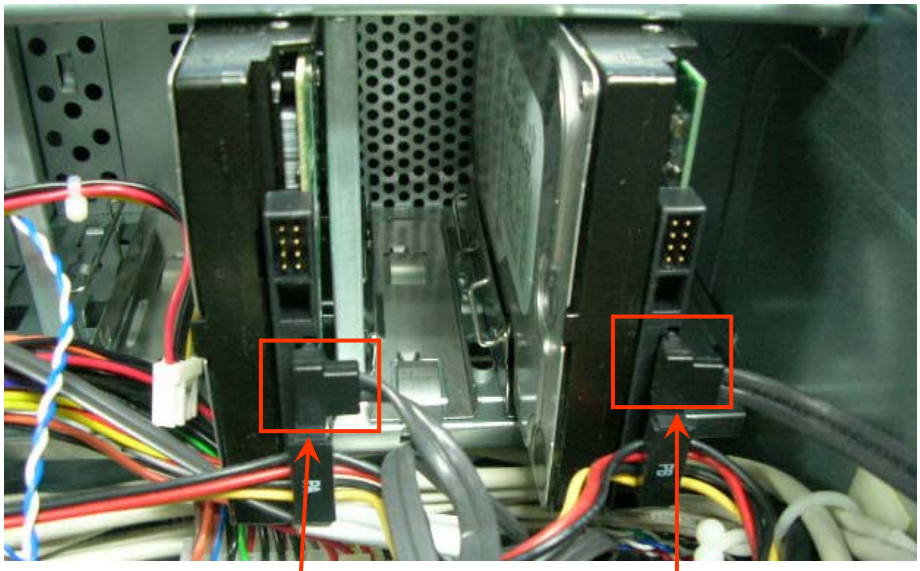

| Slot 1 | Slot 2 |
|---|---|
| TV Card | N |
| N | Modem Card |
| 1394 Card | N |
| Lan Card | N |
| TV Card | Modem Card |
| TV Card | 1394/Lan Card |
| 1394 /Lan card | Modem Card |
| Lan Card | 1394 Card |

# Remove HDD Data Cables

## Process:

1. Remove master HDD data cable from M/B SATA1/SATA3(Optional by SKU).
2. Remove slave ODD data cable from M/B SATA2/SATA4(Optional by SKU)



Remove slave HDD cable

Remove master HDD cable

## Remove ODD DATA cable

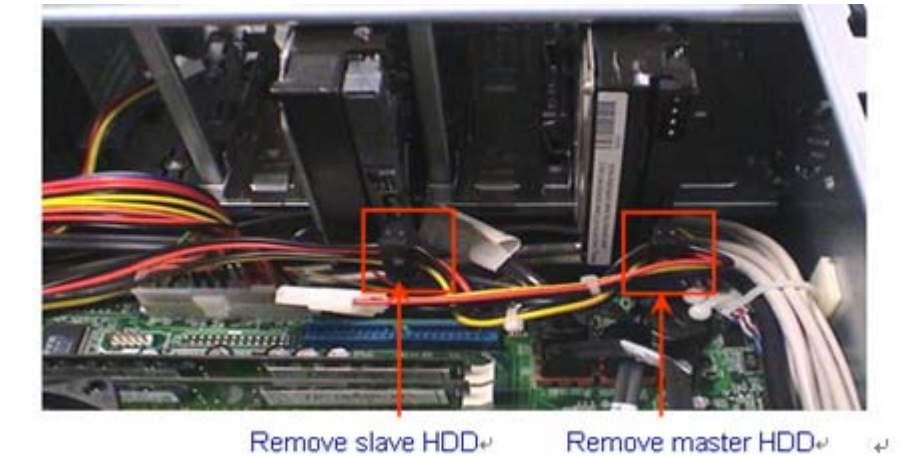
### Process:

1. Remove master ODD data/power cable from Master ODD.


## Remove HDD power cable

### Process:

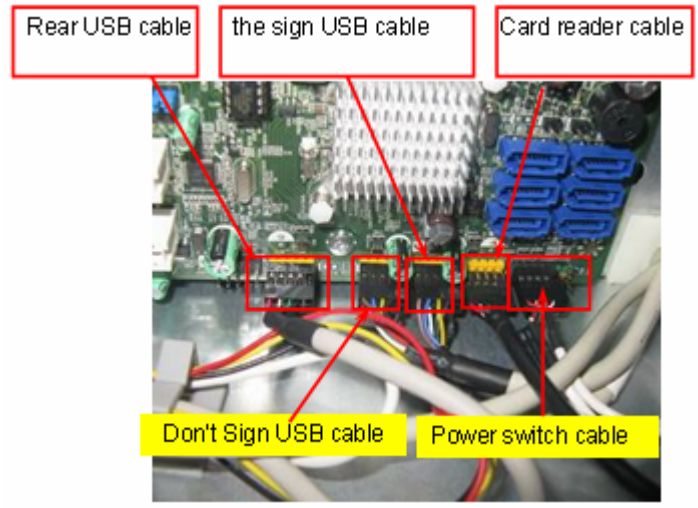
1. Remove master HDD data cable from master HDD.
2. Remove slave HDD data cable from slave HDD.

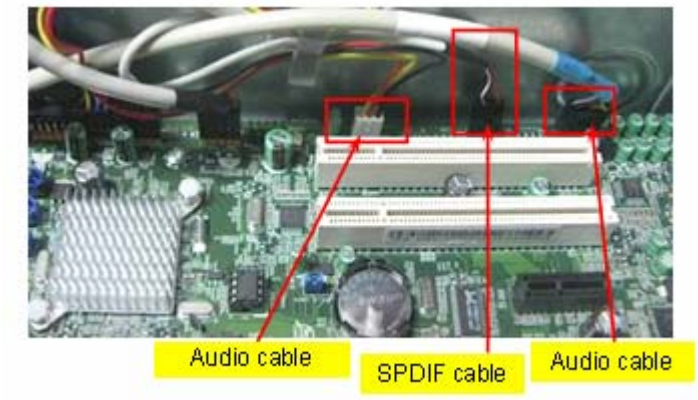


# Remove Cables

## Process:

1. Remove Power SW cable cable from M/B.
2. Remove FI/O USB cable from M/B.
3. Remove MCR USB cable from M/B.
4. Remove Card reader cable from M/B.
5. Remove audio cable from the “AUDIO” port on M/B.

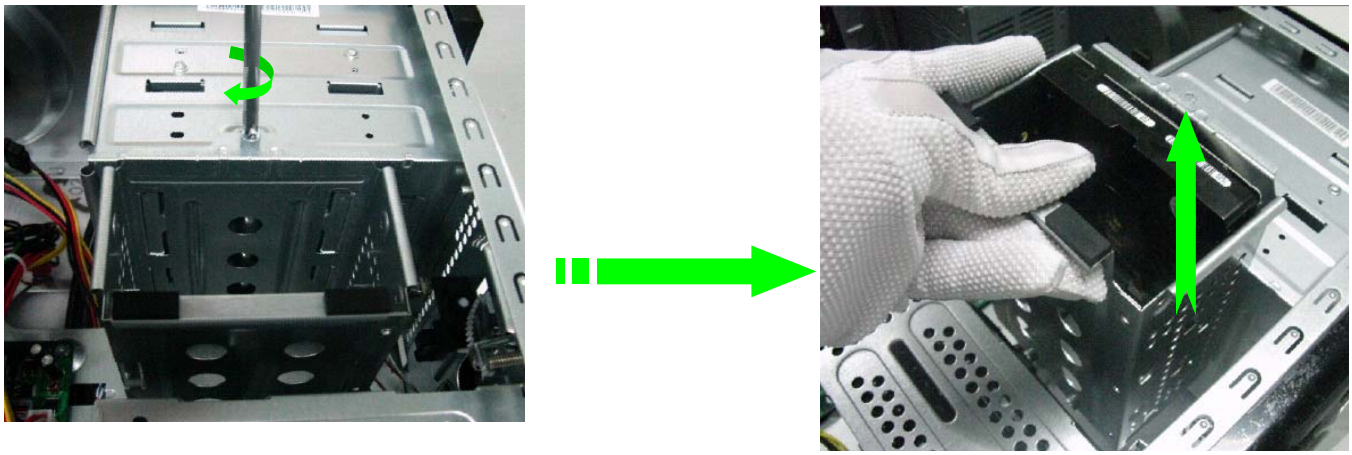


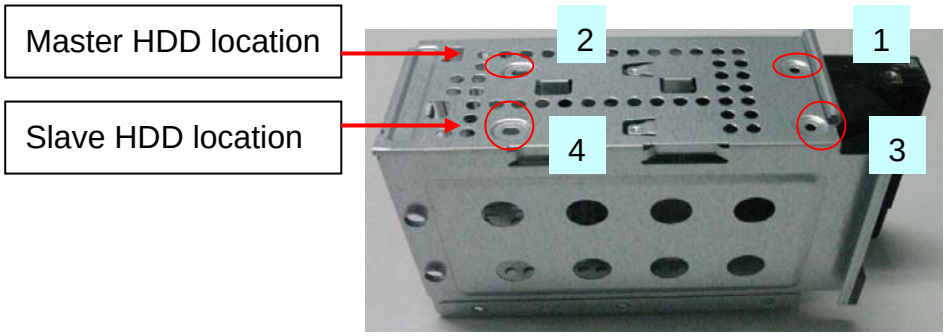



## Remove HDD

## Process:

1. Remove the screws and take out HDD bracket .
2. Remove two sides with 2 screws for each and then remove the master HDD and Slave HDD.
3. Remove Slave HDD from the second HDD location. (Optional by SKU)






## Remove card reader

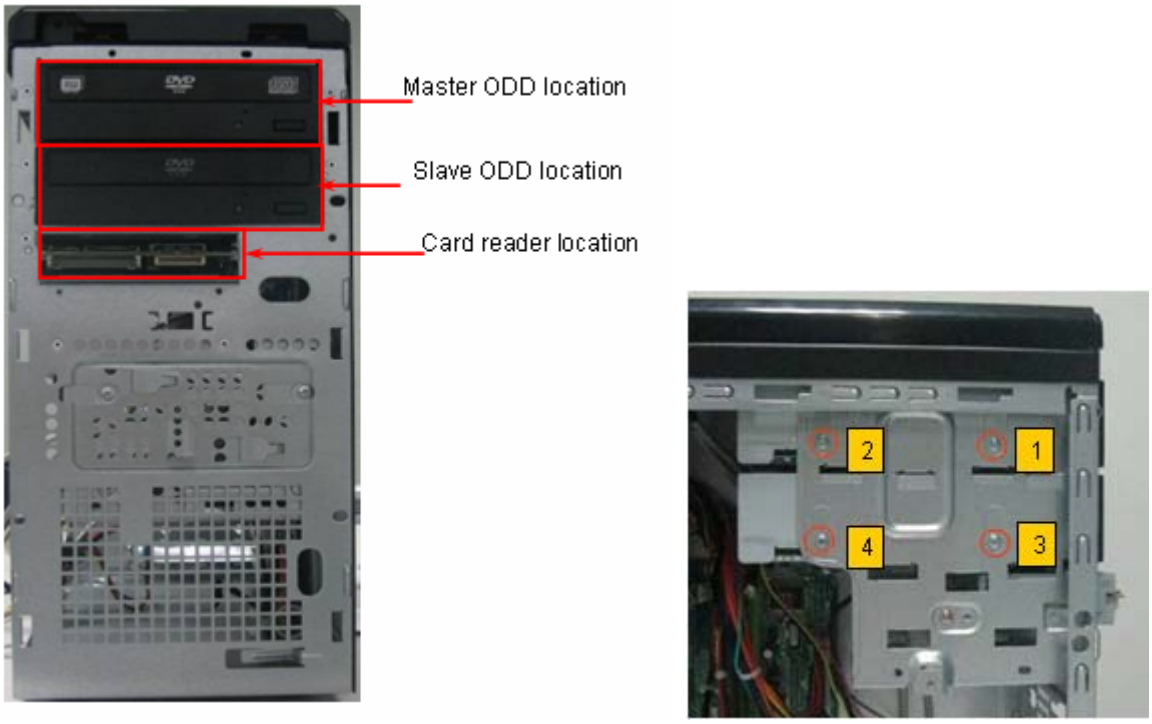
## Process:

1. Remove card reader from chassis.

# Remove ODD

## Process:

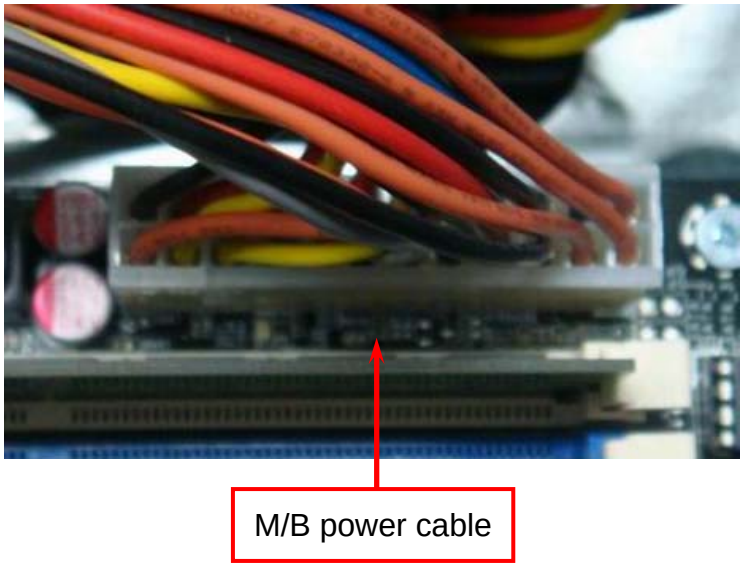
1. Remove bezel of chassis.
2. Remove Master ODD from the location.
3. Remove slave ODD from the location. (Optional by SKU)

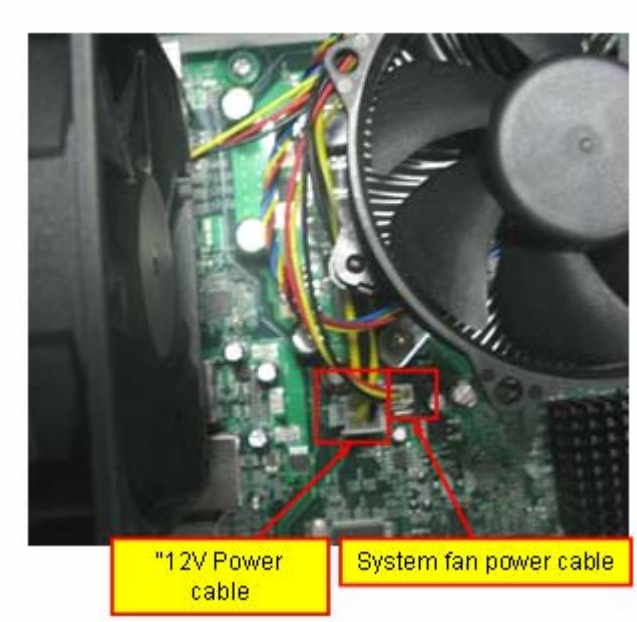



# Remove Cables

## Process:

1. Remove M/B power cable from M/B “ATX1”.
2. Remove 12 V power cable from M/B” JPW1” 3. Remove System Fan cable from M/B”SYS-F2”.



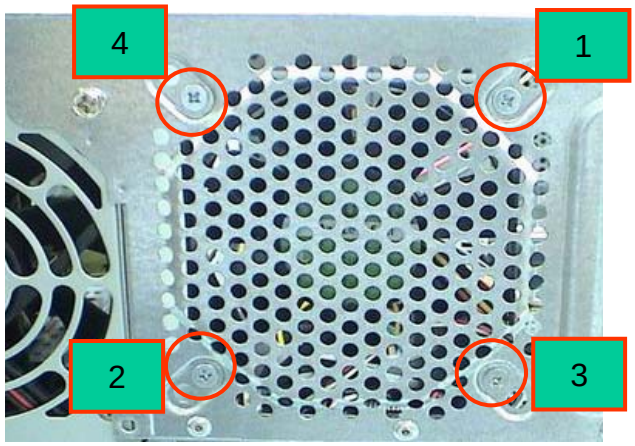




## Remove System FAN

**Process:**

1. Release four screws according to the following picture.

2. Remove Sys Release four screws. FAN (Optional by SKU)

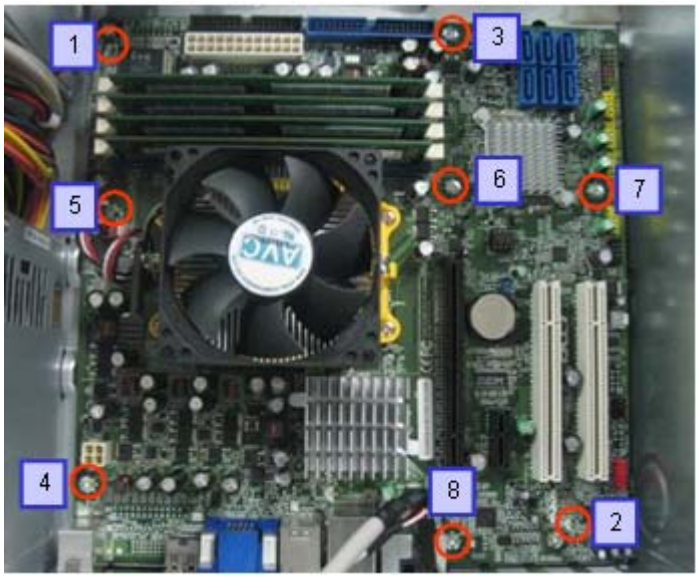



## Remove mother board

**Process:**

1. Release 8 pcs screws form the corresponding hole.
2. Release screws according to the following picture in turn.

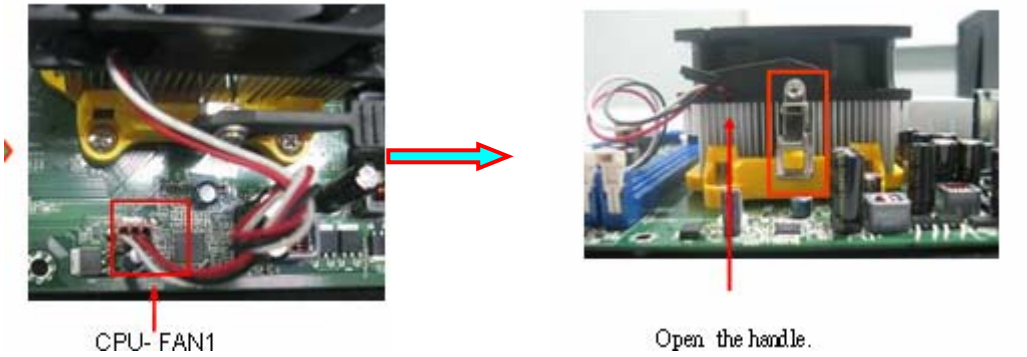
3. Remove the Mother board from chassis.




## Remove CPU cooler

**Process:**

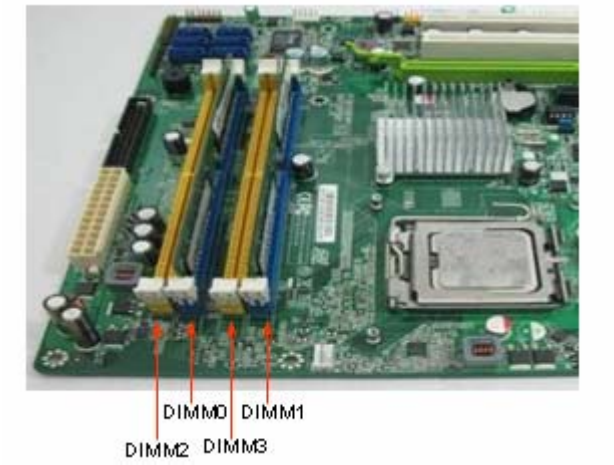
1. Remove cooler power cable from M/B “CPU-F”.
2. Open the handle.and clip.Remove Cooler from the Retention module.




## Remove memory

**Process:**

1. Remove the first Memory from DIMM.
2. Remove the second Memory from DIMM2 (Optional by SKU).




# Remove CPU

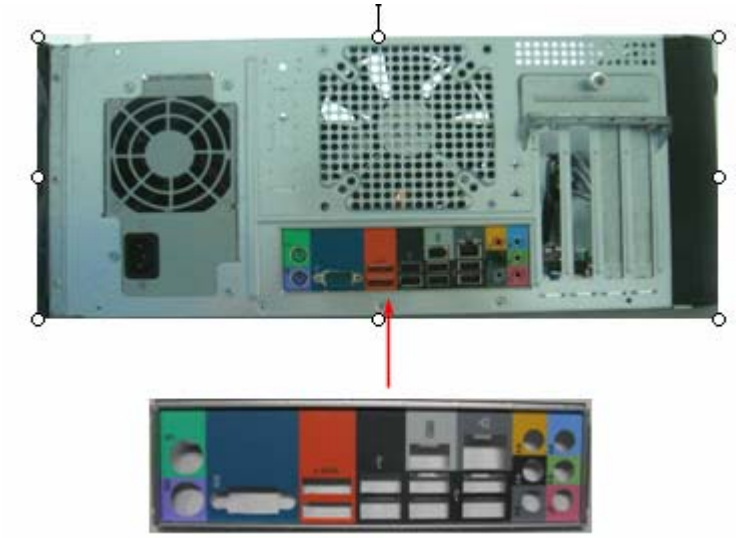
## Process:

1. Remove CPU according following the pictures.

## Remove I/O shielding

**Process:**

1. Remove I/O Shielding.



# Troubleshooting

Please refer to generic troubleshooting guide for troubleshooting information relating to following topics:

- Power-On Self-Test (POST)
- POST Check Points
- POST Error Messages List
- Error Symptoms List

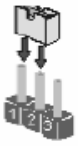
# Jumper and Connector Information

## Jumper Setting

This section explains how to set jumpers for correct configuration of the mainboard.

### Setting Jumper

Use the motherboard jumpers to set system configuration options. Jumpers with more than one pin are numbered. When setting the jumpers, ensure that the jumper caps are placed on the correct pins.

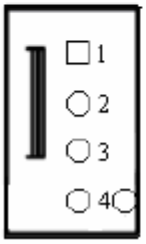
| Description | Illustration |
|---|---|
| The illustrations show a 2-pin jumper. When the jumper cap is placed on both pins, the jumper is SHORT. If you remove the jumper cap, or place the jumper cap on just one pin, the jumper is OPEN. |  SHORT OPEN |
| This illustration shows a 3-pin jumper. Pins 1 and 2 are SHORT |  |

### Clear CMOS

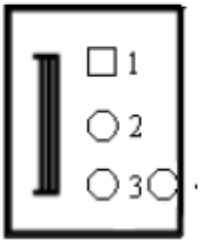
| Jumper | Type | Description | Setting(Default) | Illustration |
|---|---|---|---|---|
| CLR_CMOS | 3-pin | CLEAR CMOS | 1-2 : Clear<br>2-3 : Normal<br>Before clearing the CMOS,make sure to turn off the system |  Clear CMOS 1 |

## *Checking Connector*

### CPU_FAN: CPU Cooling Fan Connector

| | Pin | Signal Name | Function |
|---|---|---|---|
|  | 1 | GND | System Ground |
| | 2 | +12V | Power +12V |
| | 3 | Sense | Sensor |
| | 4 | Control | FAN Control Signal |

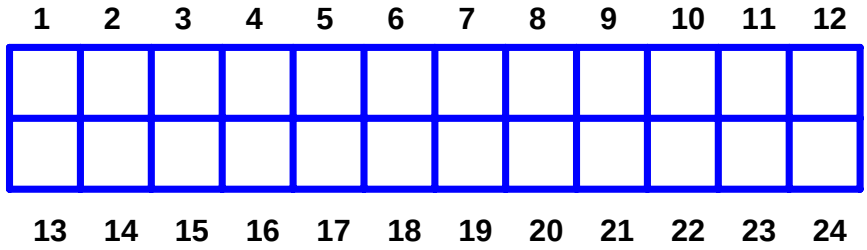
### SYS_FAN/PWR_FAN: FAN Power Connectors

| | Pin | Signal Name | Function |
|---|---|---|---|
|  | 1 | GND | System Ground |
| | 2 | +12V | Power +12V |
| | 3 | Sense | Sensor |

### ATX12V: ATX 12V Power Connector

| Pin | Signal Name |
|---|---|
| 1 | Ground |
| 2 | Ground |
| 3 | +12V |
| 4 | +12V |

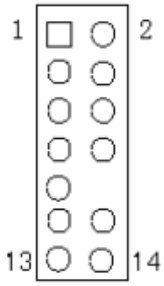
## ATX_POWER: ATX 24-pin Power Connector



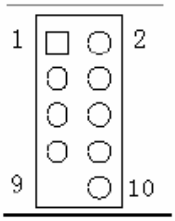

| Pin | Signal Name | Pin | Signal Name |
|---|---|---|---|
| 1 | +3.3 | 13 | +3.3V |
| 2 | +3.3 | 14 | -12V |
| 3 | COM | 15 | COM |
| 4 | +5V | 16 | PS_ON |
| 5 | COM | 17 | COM |
| 6 | +5V | 18 | COM |
| 7 | COM | 19 | COM |
| 8 | PWR OK | 20 | -5V |
| 9 | 5VSB | 21 | +5V |
| 10 | +12V | 22 | +5V |
| 11 | +12V | 23 | +5V |
| 12 | +3.3V | 24 | COM |

### *Front Panel Header*

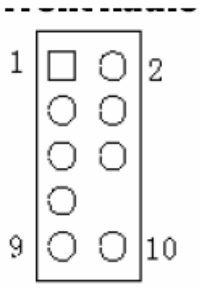
The front panel header (PANEL1) provides a standard set of switch and LED connectors commonly found on ATX or Micro ATX cases. Refer to the table below for information:

| Illustration | Pin | Signal | Pin | Signal |
|---|---|---|---|---|
|  | 1 | 5V_SYS | 2 | GPIO_GRN_HDR_R |
| | 3 | HDD_LED_R | 4 | GPIO_YLW_HDR_R |
| | 5 | GND | 6 | PSIN |
| | 7 | ICH_SYS_RSTJ | 8 | GND |
| | 9 | 5V_SYS | 10 | KEY |
| | 11 | NC | 12 | 5V_SB |
| | 13 | NC | 14 | LAN_ACTJ |

### *Front USB*

| Illustration | Pin | Signal | Function | Pin | Signal | Function |
|---|---|---|---|---|---|---|
|  | 1 | VREG_FP_USBPWR0 | Front panel USB power(Ports 0,1) | 2 | VREG_FP_USBPWR0 | Front panel USB power(Ports 0,1) |
| | 3 | USB_FP_P0- | Front panel USB Port 0 Negative Signal | 4 | USB_FP_P1- | Front panel USB Port 1 Negative Signal |
| | 5 | USB_FP_P0+ | Front panel USB Port 0 Positive Signal | 6 | USB_FP_P1+ | Front panel USB Port 1 Positive Signal |
| | 7 | GROUND | | 8 | GROUND | |
| | 9 | KEY | | 10 | GROUND | |

### *Front Audio*

| Illustration | Pin | Signal Name | Pin | Signal Name |
|---|---|---|---|---|
|  | 1 | MIC2-L | 2 | AUD_GND |
| | 3 | MIC2-R | 4 | AUD_PRESENCE_L |
| | 5 | LINE2-R | 6 | MIC2-JD |
| | 7 | FRONT-IO-SENSE | 8 | KEY |
| | 9 | LINE2-L | 10 | LINE2-JD |

***Intruder***

| Pin | Signal Name | Pin | Signal Name |
|---|---|---|---|
| 1 | INTRUDERJ | 2 | GROUND |

***J3***(for requested)

| Pin | Signal Name | Pin | Signal Name |
|---|---|---|---|
| 1 | AGPIO1 | 2 | GROUND |

***J4***(for requested)

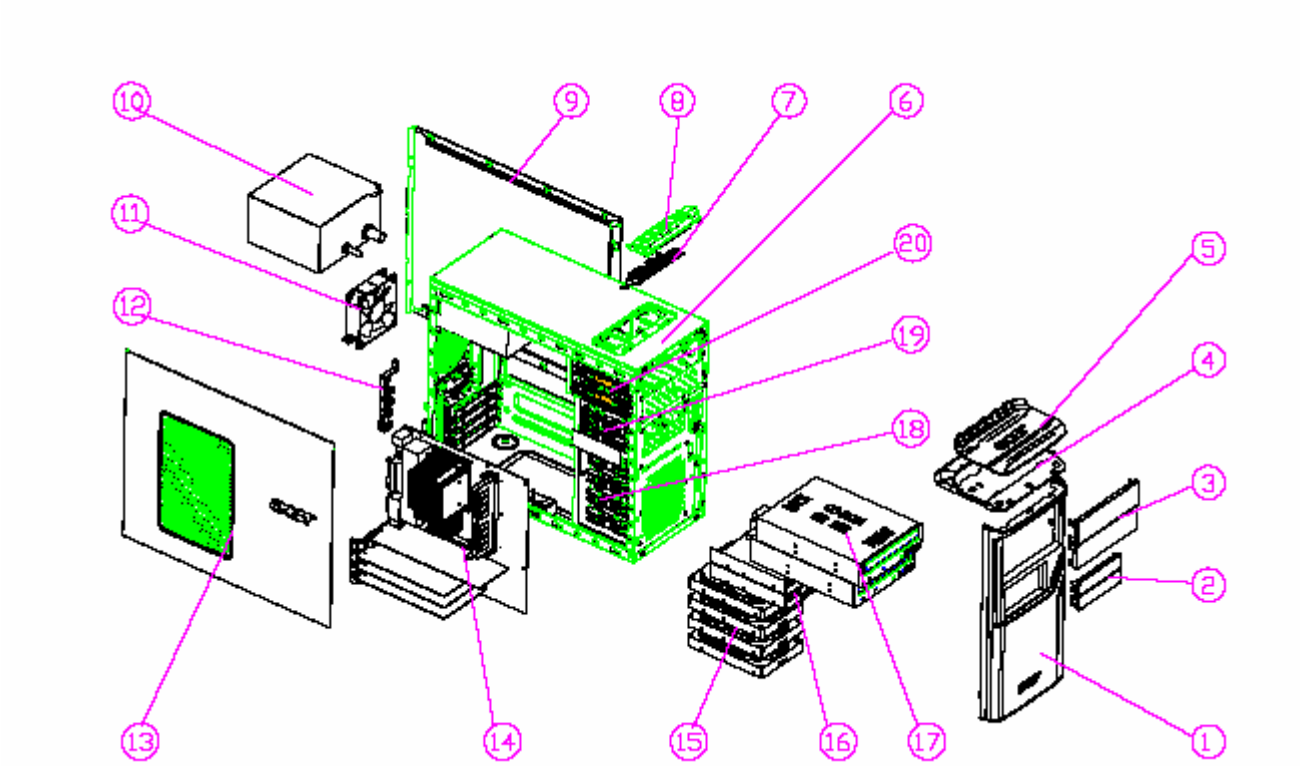
| Pin | Signal Name | Pin | Signal Name |
|---|---|---|---|
| 1 | AGPIO2 | 2 | GROUND |

# FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of **Aspire M3300** Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

**NOTE:** Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

# Exploded Diagram




| NO. | DESCRIPTION | REMARK | NO. | DESCRIPTION | REMARK |
|---|---|---|---|---|---|
| 10 | POWER SUPPLY | | 20 | CD-ROM LOCK SLIDE | |
| 9 | RIGHT SIDE DOOR | | 19 | FDD-LOCK-SLIDE | |
| 8 | USB-SHIELDING | | 18 | HDD-LOCK-SLIDE | |
| 7 | USB_PCB-ASM | | 17 | CD-ROM | |
| 6 | CHASSIS | | 16 | 3.5"DEVICE | |
| 5 | AM50_USB_PENEL | | 15 | HDD | |
| 4 | AM50_USB | | 14 | MOTHERBOARD | |
| 3 | 5_25-COVER | | 13 | LEFT SIDE DOOR | |
| 2 | 3_25-COVER | | 12 | PCI-BRACKET | |
| 1 | AM30_MAIN_BEZEL | | 11 | FAN | |

# Aspire M3300 FRU List

| Category | Description | Part Number |
|---|---|---|
| MAINBOARD | | |
|  | Mainboard FRS780F ATI RS780 SB710 Marvell 8071 ATX w/o IO Bracket w/i 1394 LF onboard DVI D-Sub | MB.SBT09.001 |
| CPU Cooler | | |
|  | Fan Cooler K8_M2 AVC Z7UB008 AVC fan7015 | HI.12900.001 |
| CPU | | |
|  | AMD Phenom II 925 | KC.PH202.925 |
| | AMD Phenom II 805 | KC.PH202.805 |
| | AMD Phenom II 720 | KC.PH202.720 |
| Memory | | |
|  | 1GB, DDRIII1066(Samsung) | KN.1GB0B.022 |
| | 2GB, DDRIII1333(Samsung) | KN.2GB0B.008 |
| HDD | | |
|  | 160G SATA2 8MB 7200 NCQ(HGST) | KH.16007.023 |
| | 320G SATA2 8MB 7200 NCQ(WD) | KH.32008.016 |
| | 320G SATA2 8MB 7200 NCQ(Seagate) | KH.32001.009 |
| | 640G SATA2 16MB 7200 NCQ(Seagate) | KH.64001.001 |
| ODD | | |
|  | DVD-ROM DDVD16XS SATA | KV.0160F.001 |

| | | |
|---|---|---|
| | DVD Super Multi DSM16XS SATA LabelFlash | KU.0160D.045 |
| | BD COMBO HH DL 4X LF Black Bezel SATA | KO.0060D.001 |
| | BD RW HH DL 4X LF Black Bezel SATA | KU.0060D.001 |
| TV-Tuner | | |
|  | PE988-A TV Tuner Card PCIe Hybrid ATSC with S/W Encoder | TU.10500.038 |
| Card Reader | | |
|  | IOI 16-in-1 CR M1/M3 w/3.5", USB2.0, UsBSET UT330-LK | CR.10400.071 |
| Modem | | |
|  | HPI56L6, Modem PCI card, LSI Universal Modem (PCI) 56K V.92 - Pinball (P40) | FX.10100.006 |
| Power Supply | | |
|  | PS-6301-08A2-ROHS, Non-PFC 300W (Modulized) | PY.3000B.013 |
| | FSP450-60EP, FR 500W 82+ (Eneergy Star5.0) | PY.50008.003 |
| Mouse | | |
|  | Logitech 0810_USB Optical mouse USB M-UAY-ACR2 | MS.11200.014 |
| KEYBOARD | | |

| | | |
|---|---|---|
|  | Keyboard LITE-ON SK-9625 USB Standard 104KS Black US with new color AC-MT-018 | KB.USB0B.082 |

# Intel RAID SOP (Windows)

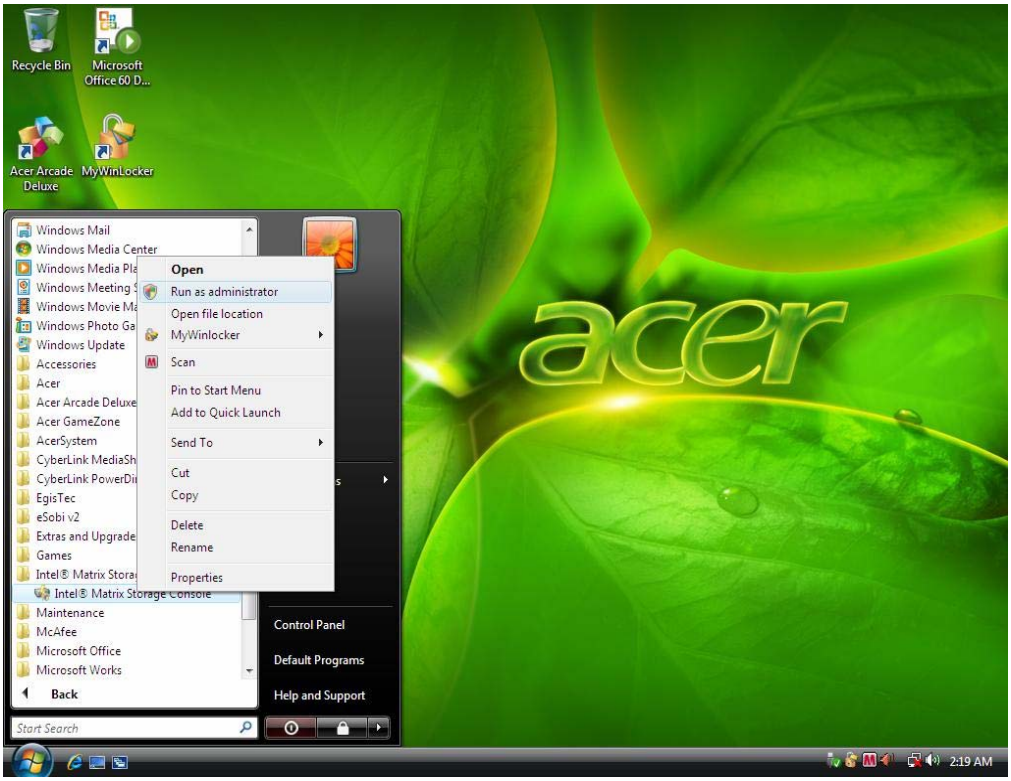
## 2.Intel(R) Matrix Storage Console

**2-1:Create a“RAID Ready” System into" RAID 0" with two Hard Drives by‘Create RAID Volume from Existing HDD Drive ’.**

Step 1: Install Vista OS with one SATA HDD.

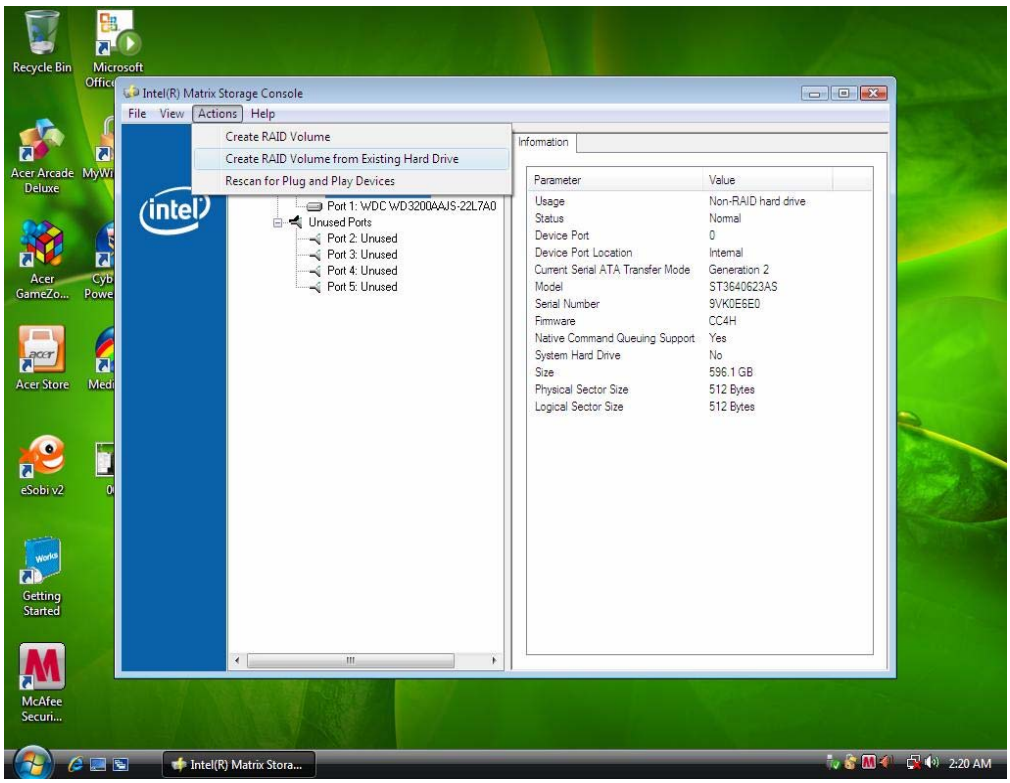
Step 2: Shut down the system,then add one Serial ATA hard drive in the system.

Step 3: Boot to OS desktop, open the Intel® Matrix Storage Console.



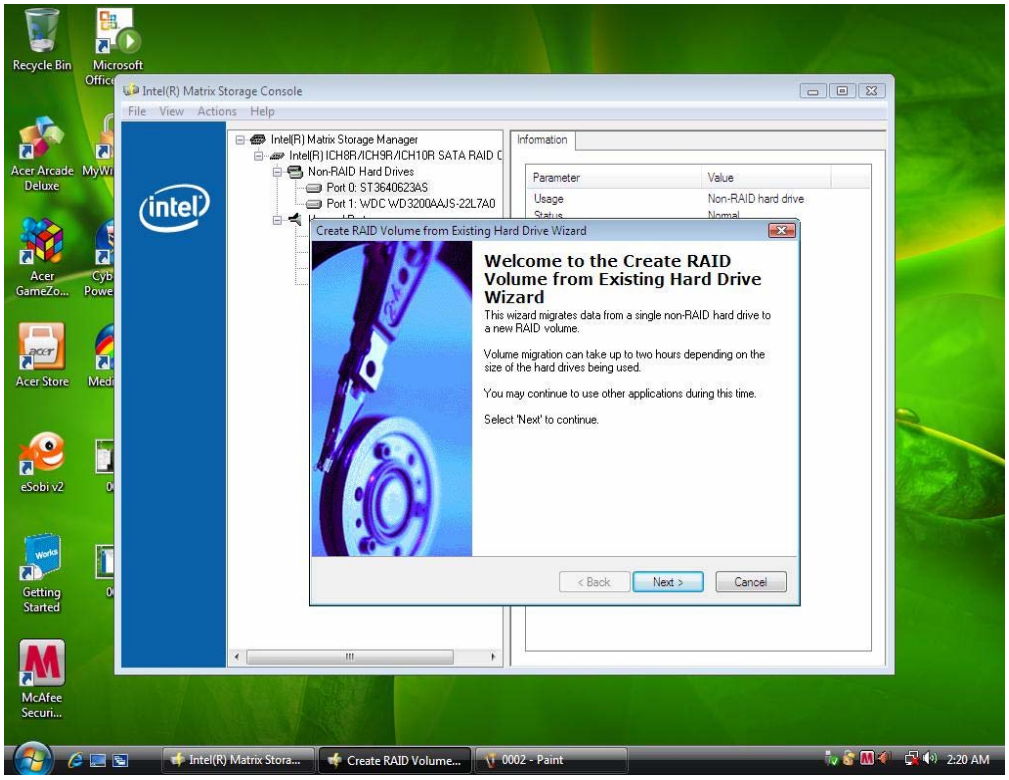

Picture1

Step 4: Click on the by‘Create RAID Volume from Existing HDD Drive ’ to create a RAID volume.



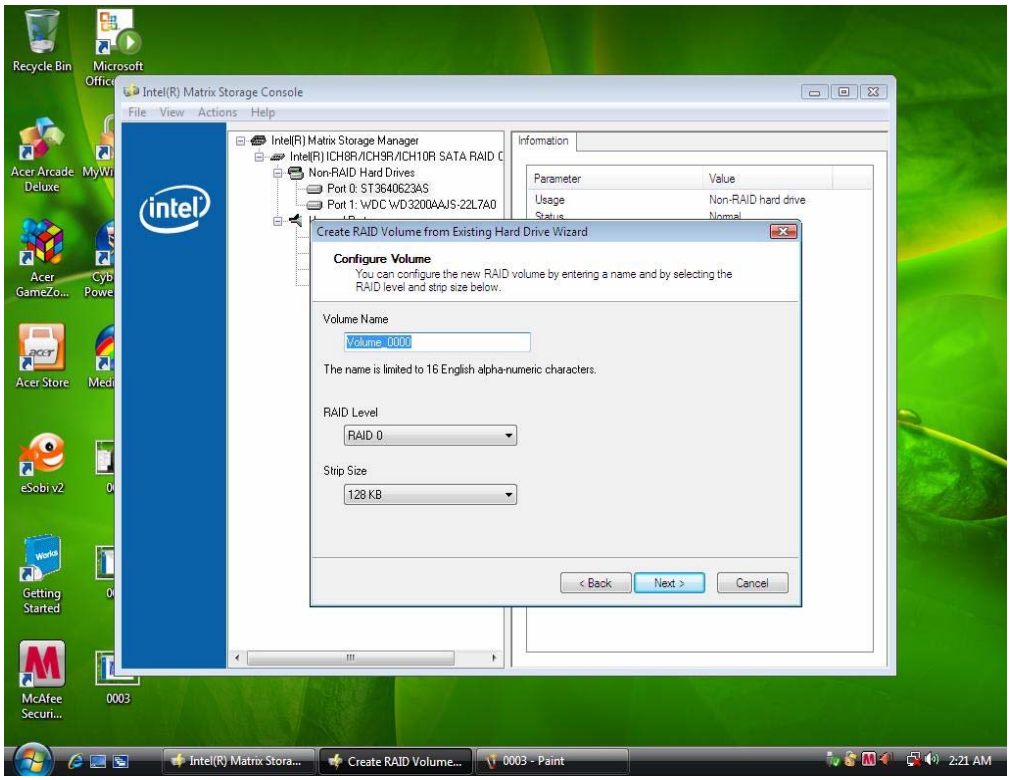

Picture2

Step 5: Click "Next" at create a RAID volume window.



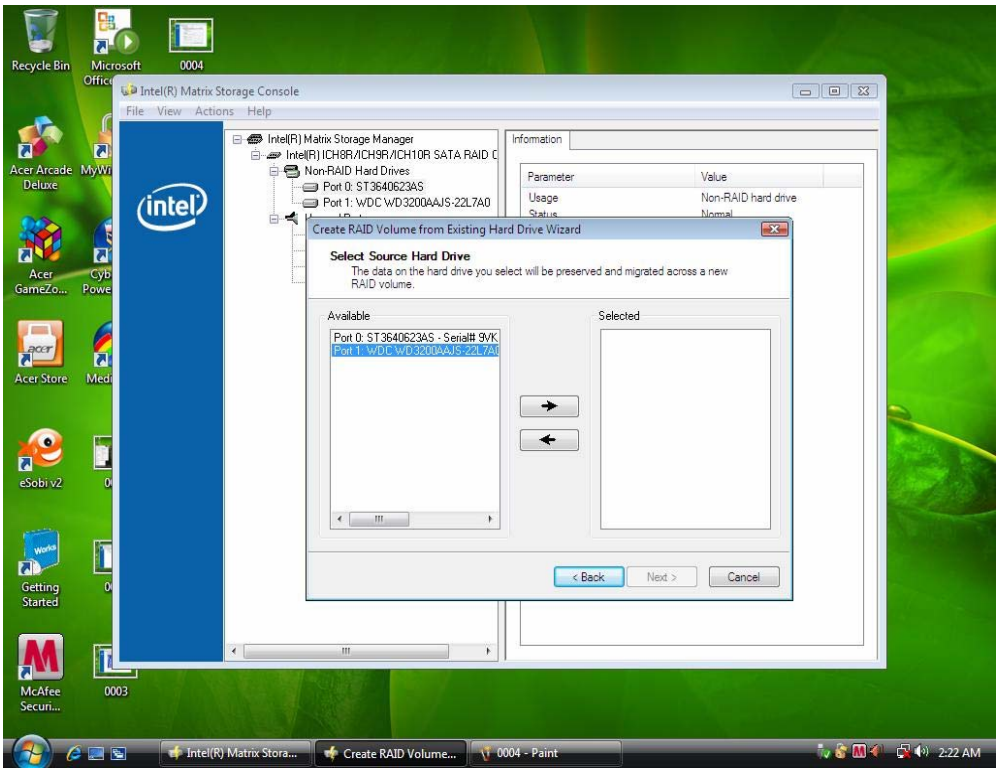

Picture3

Step 6: Key the name in "Volume Name" and select "RAID 0" in RAID Level.

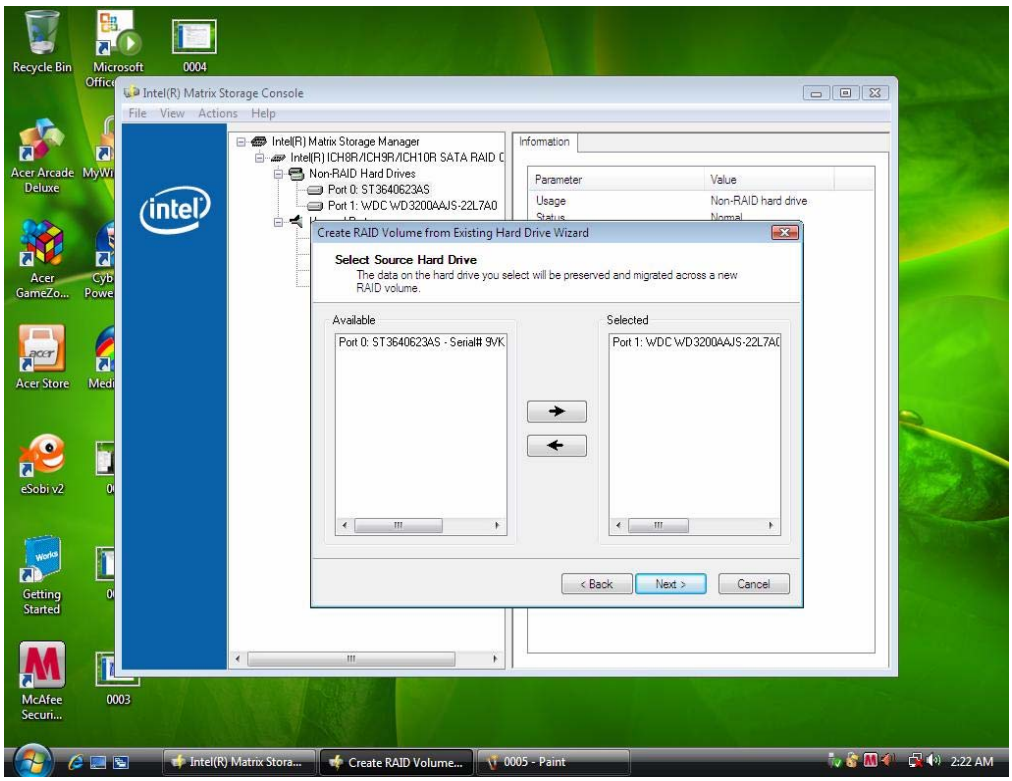



Picture4

Step 7: Select minimum HDD as "Source Hard Drive".

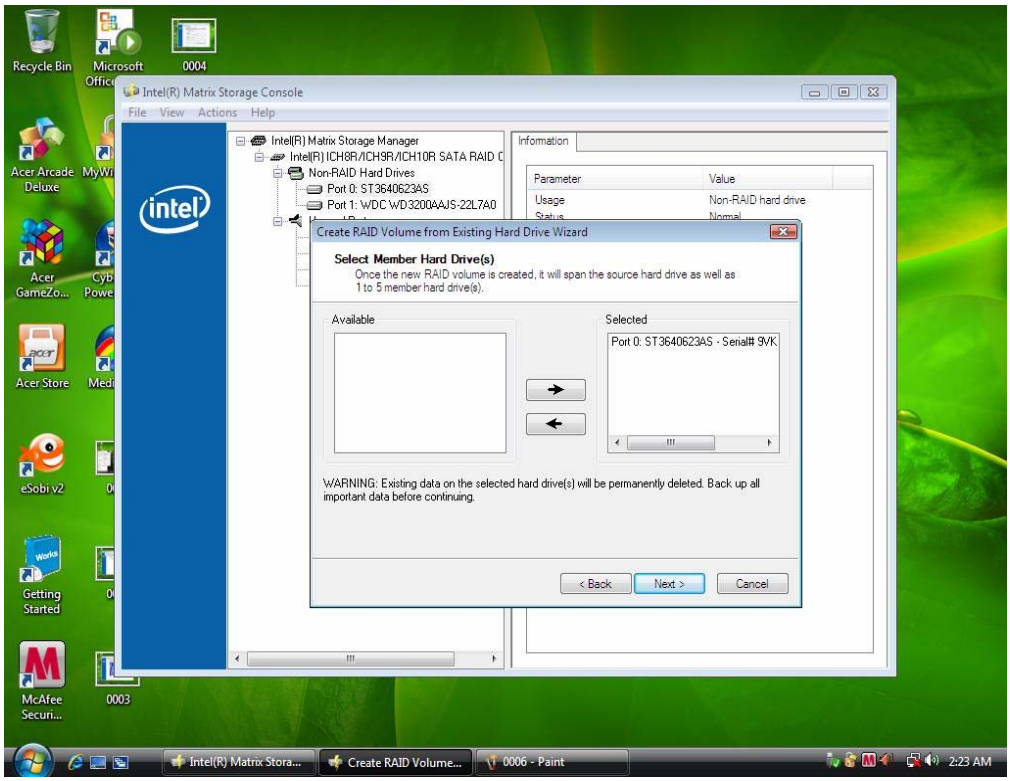



Picture5



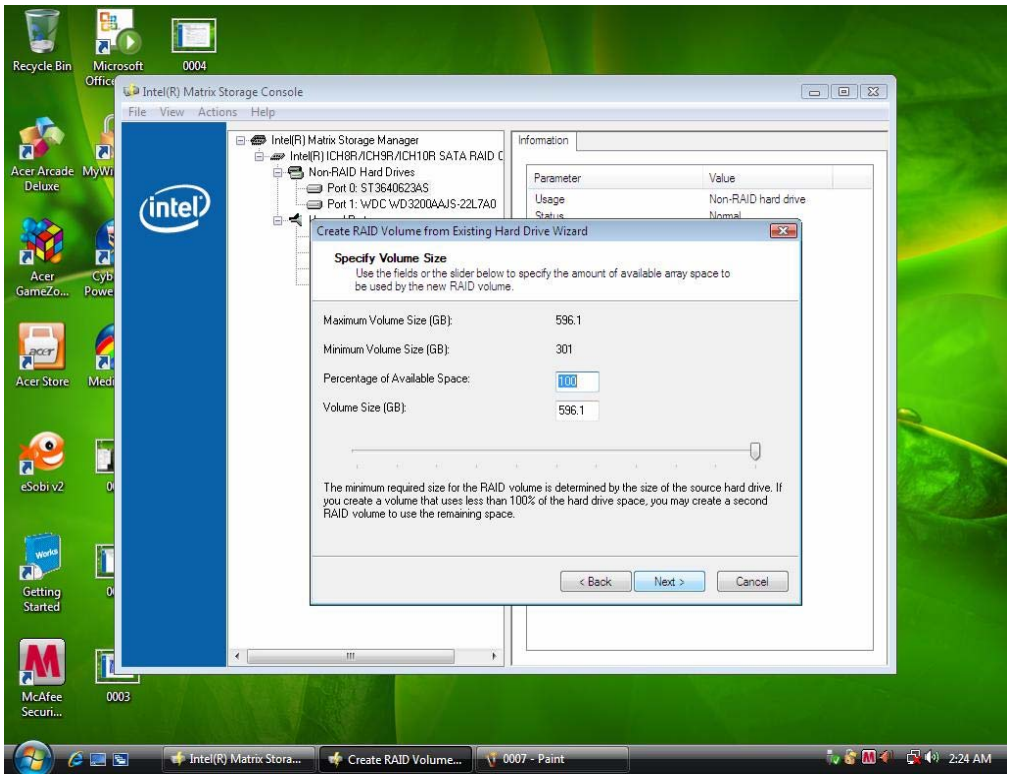

Picture6

Step 8: Select Menber Hard Drive(s).



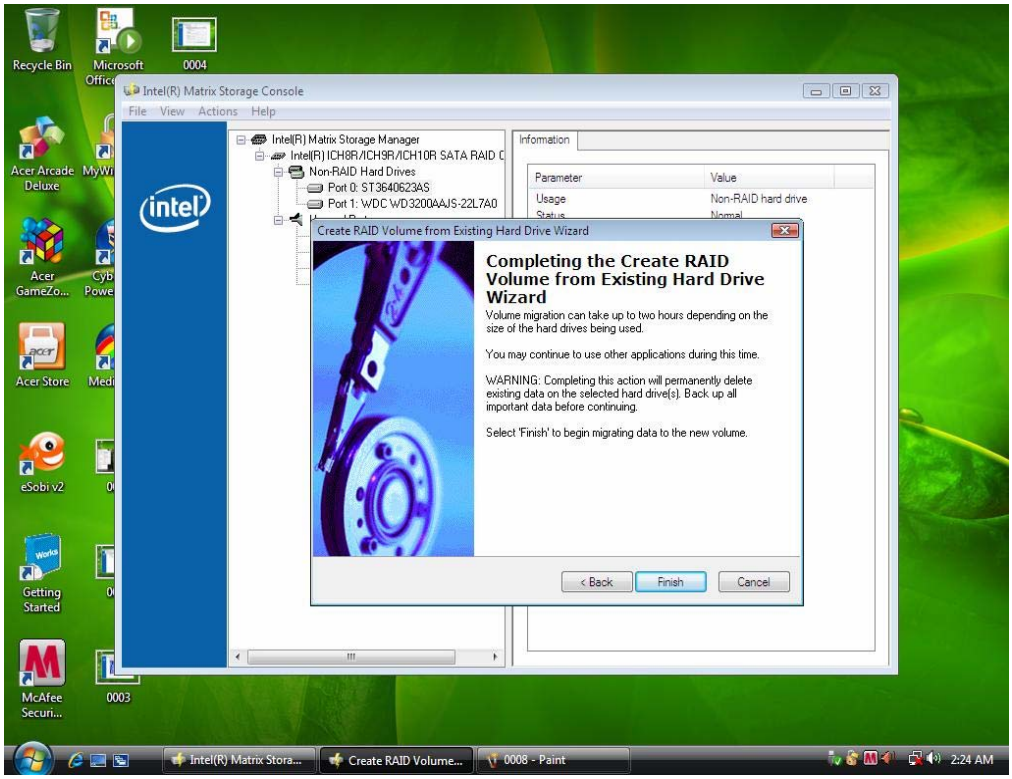

Picture7

Step 9: Specify Volume Size then press "next".




Picture8

Step 10: Press "next" to finish setup and start create RAID0.




Picture9

Step 11: It may takes half and hours to create RAID0.After create completely,it will ask to reboot to finish create RAID0.

**2-2:Create a“RAID Ready” System into" RAID 1" with two Hard Drives by‘Create RAID Volume from Existing HDD Drive ’.**

Step 1: Install Vista OS with one SATA HDD.

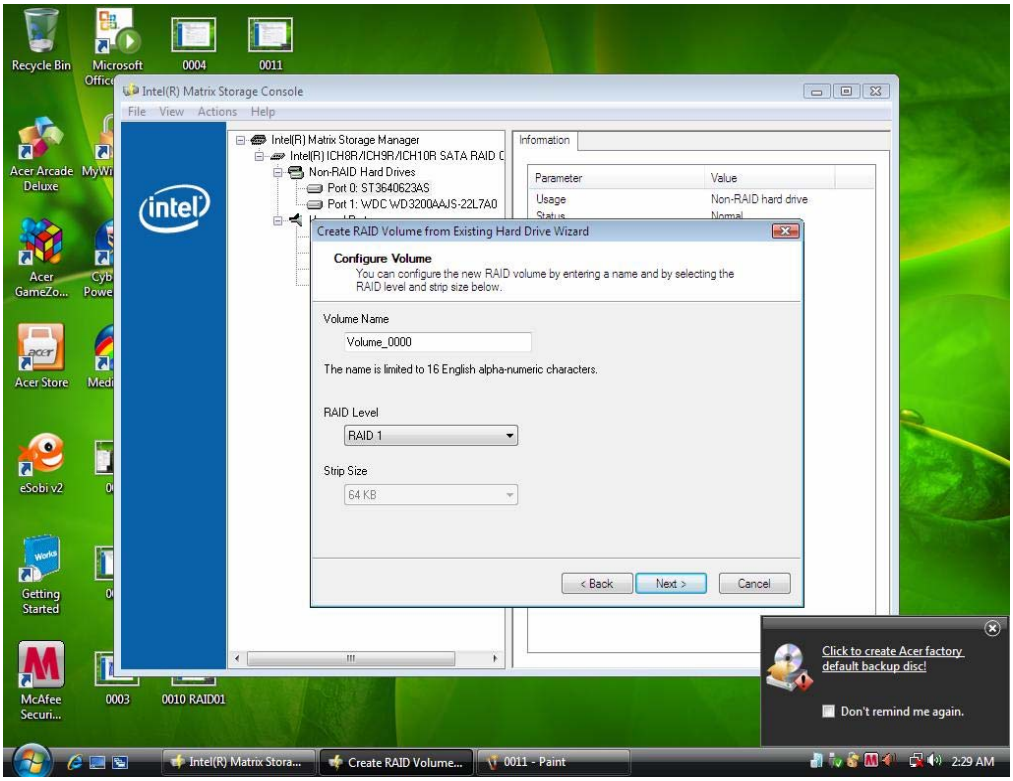
Step 2: Shut down the system,then add another Serial ATA hard drive in the system.

Step 3: Boot to OS desktop, open the Intel® Matrix Storage Console.

Step 4: Click on the by‘Create RAID Volume from Existing HDD Drive ’ to create a RAID volume.

Step 5: Click "Next" at create a RAID volume window.

Step 6: Key the name in "Volume Name" and select "RAID 1" in RAID Level.




Picture10

Step 7: Select minimum HDD as "Source Hard Drive".

Step 8: Select Menber Hard Drive(s).

Step 9: Specify Volume Size then press "next".

Step 10: Press "next" to finish setup and start create RAID1.

Step 11: It may takes half and hours to create RAID1.After create completely,it will ask to reboot to finish create RAID1.

**2-3:Create a“RAID Ready” System into" RAID 5" with three Hard Drives by‘Create RAID Volume from Existing HDD Drive ’.**

Step 1: Install Vista OS with one SATA HDD.

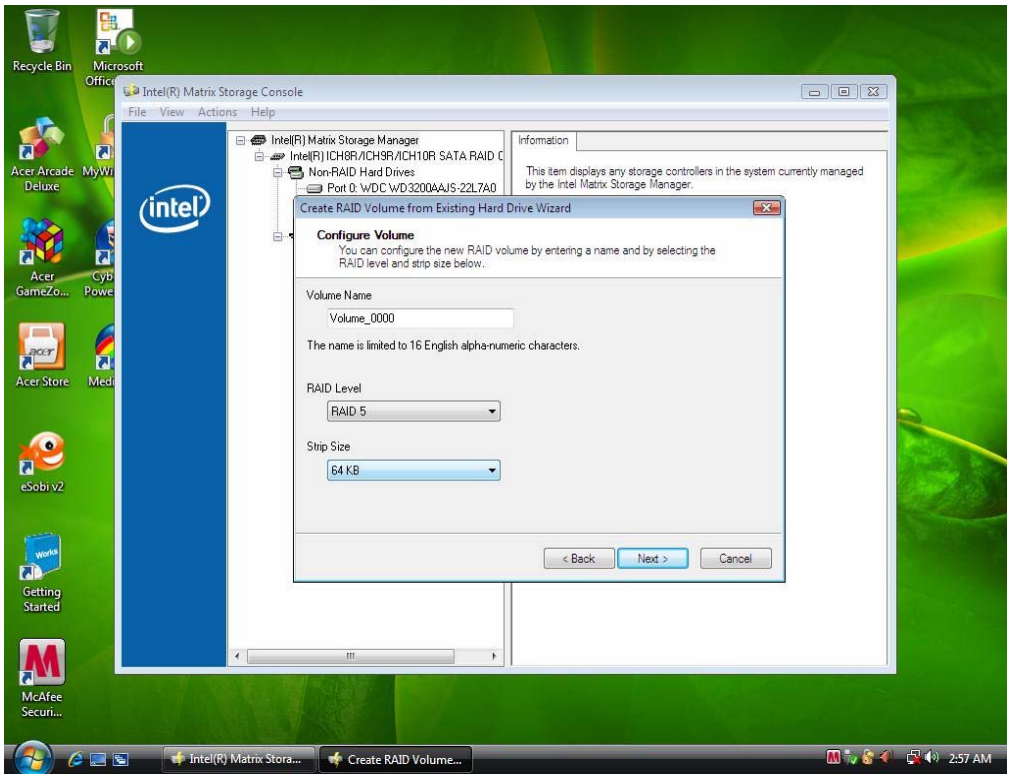
Step 2: Shut down the system,then add other two serial ATA hard drives in the system.

Step 3: Boot to OS desktop, open the Intel® Matrix Storage Console.

Step 4: Click on the by‘Create RAID Volume from Existing HDD Drive ’ to create a RAID

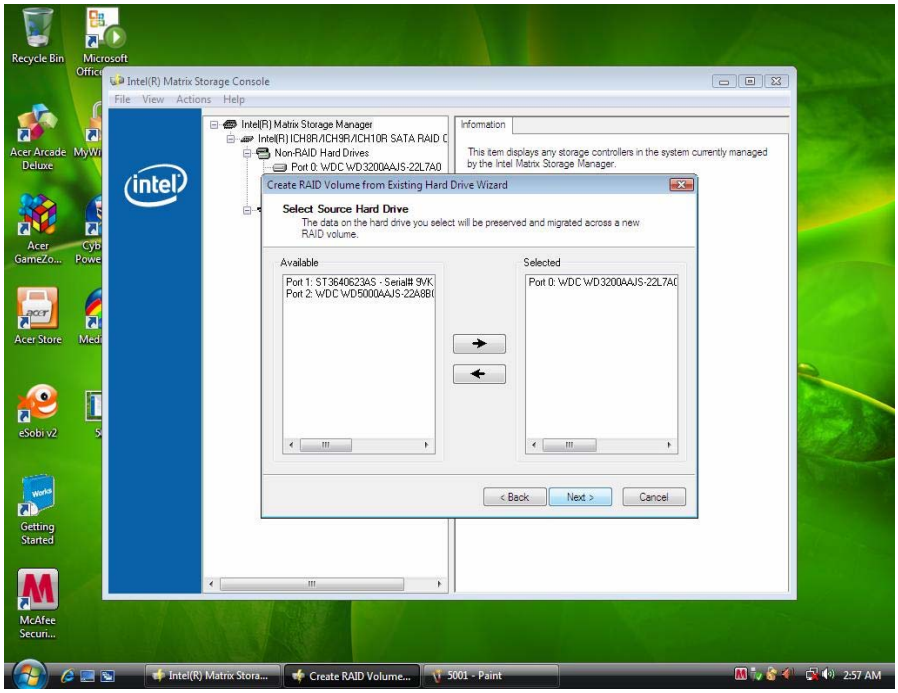
Step 5: Click "Next" at create a RAID volume window.

Step 6: Key the name in "Volume Name" and select "RAID 5" in RAID Level.



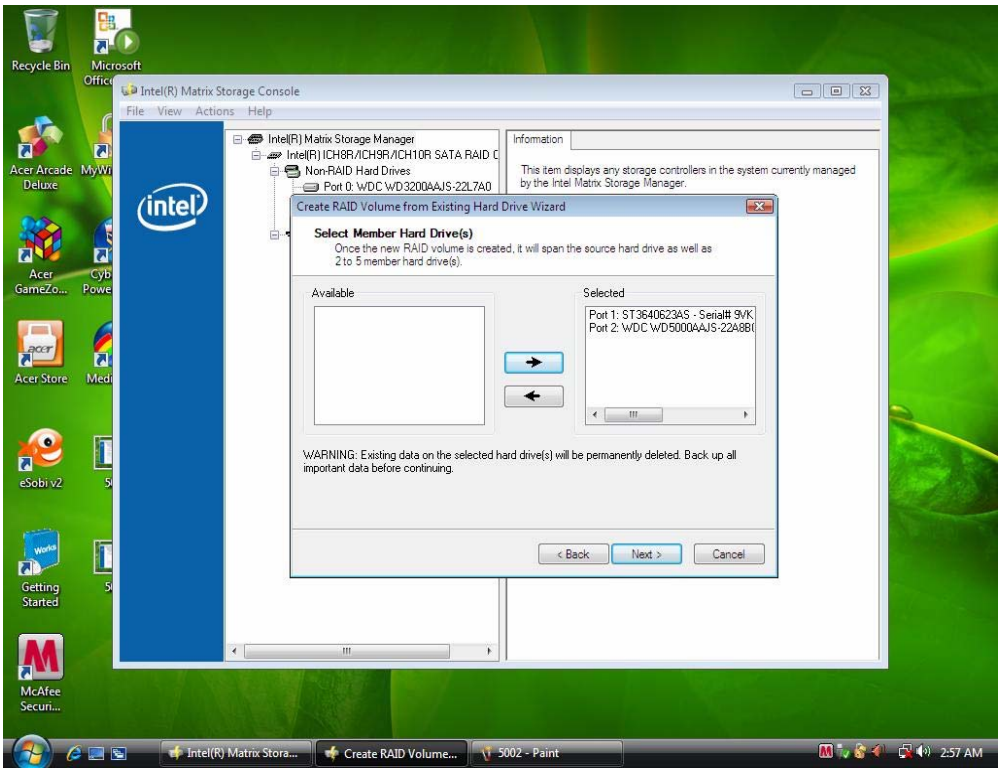

Picture11

Step 7: Select minimum HDD as "Source Hard Drive".




Picture12

Step 8: At least select two HDD as Menber Hard Drive(s).




Picture13

Step 9: Specify Volume Size then press "next".

Step 10: Press "next" to finish setup and start create RAID5.

Step 11: It may takes half and hours to create RAID5.After create completely,it will ask to reboot to finish create RAID5.

**2-4:Create a“RAID Ready” System into" RAID 10" with three Hard Drives by‘Create RAID Volume from Existing HDD Drive ’.**

Step 1: Install Vista OS with one SATA HDD.

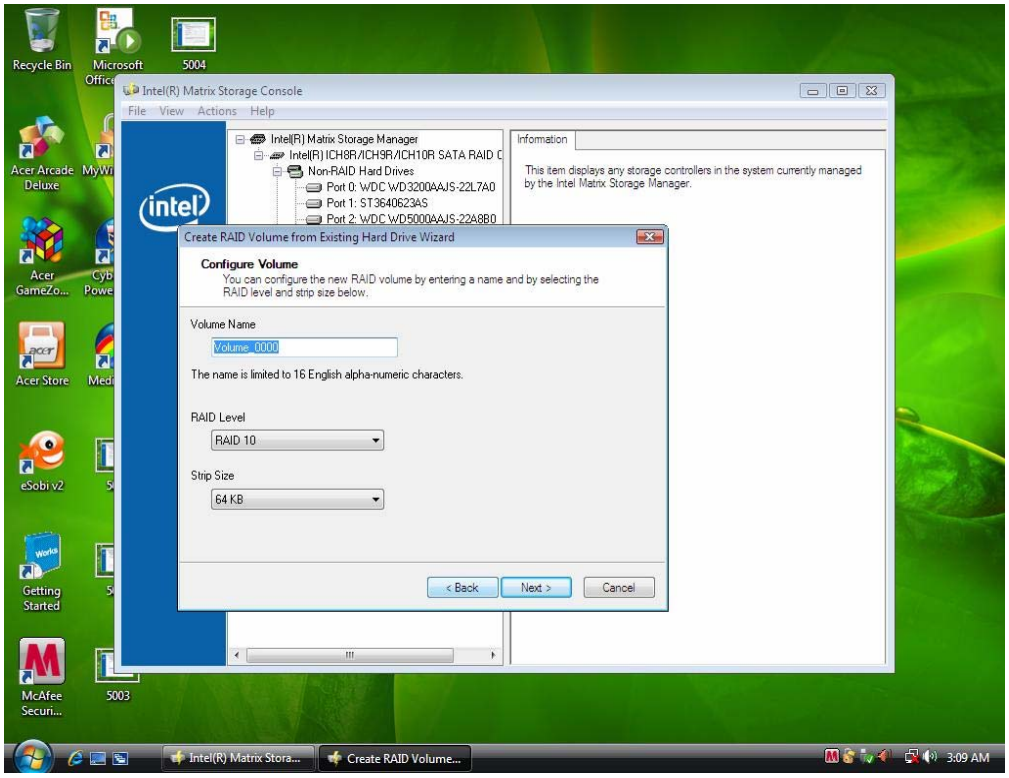
Step 2: Shut down the system,then add other two serial ATA hard drives in the system.

Step 3: Boot to OS desktop, open the Intel® Matrix Storage Console.

Step 4: Click on the by‘Create RAID Volume from Existing HDD Drive ’ to create a RAID

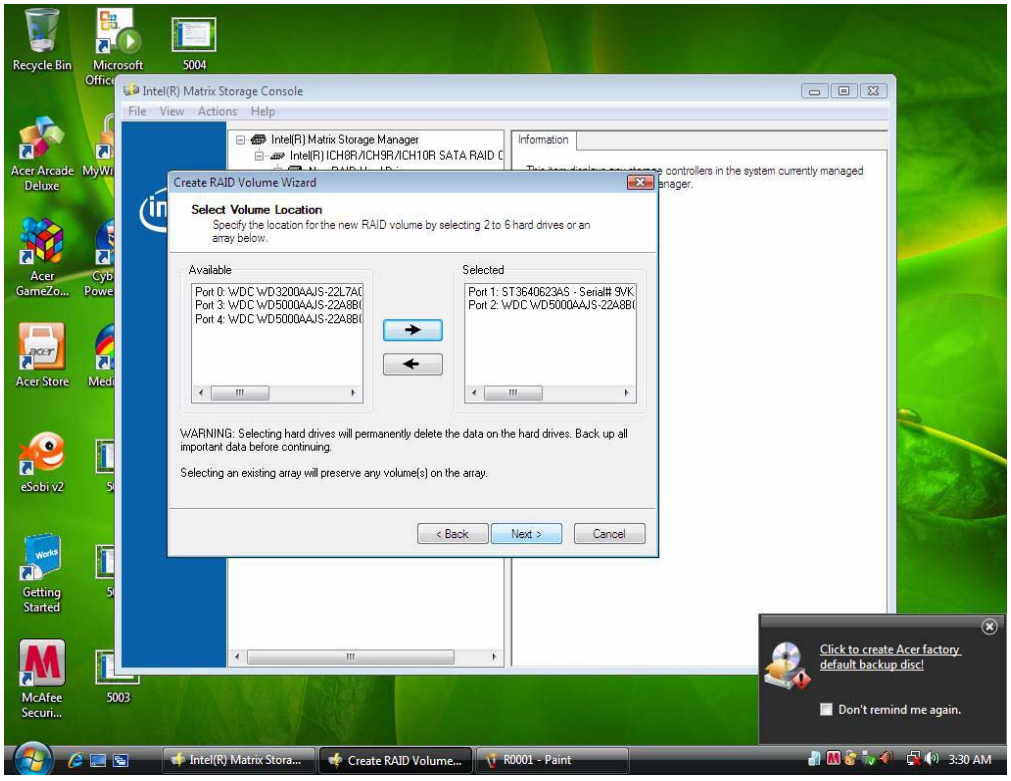
Step 5: Click "Next" at create a RAID volume window.

Step 6: Key the name in "Volume Name" and select "RAID 10" in RAID Level.




Picture14

Step 7: Select two HDDs as "Source Hard Drive".




Picture15

Step 8: At least select two HDD as Menber Hard Drive(s).

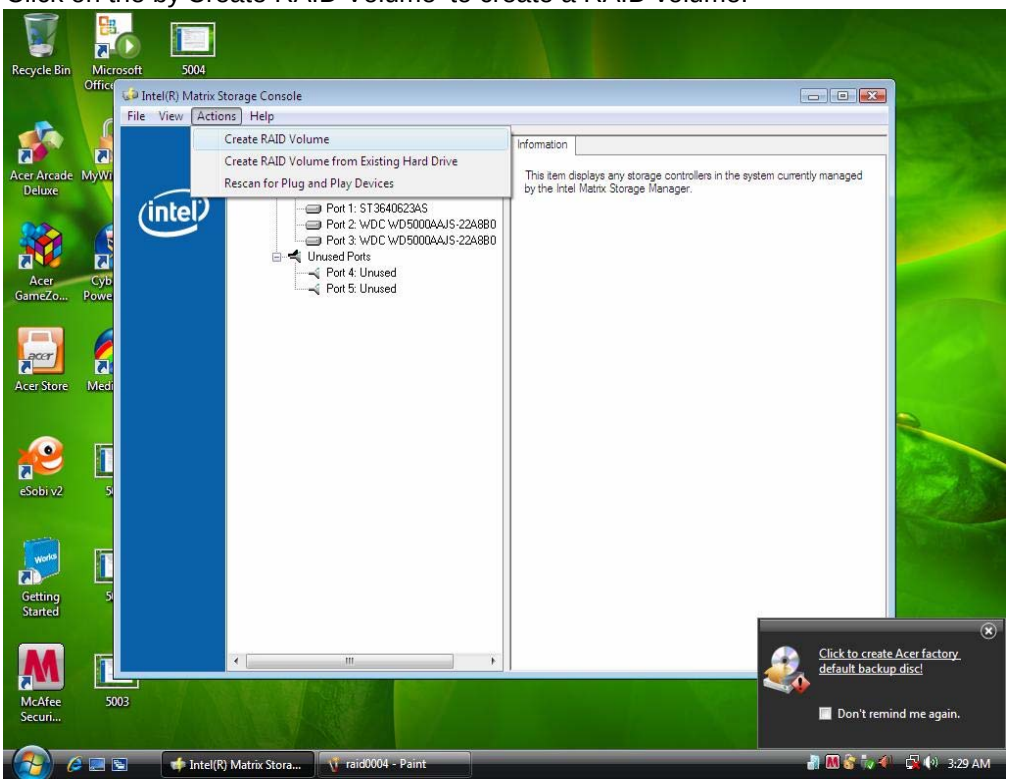
Step 9: Specify Volume Size then press "next".

Step 10: Press "next" to finish setup and start create RAID 10.

Step 11: It may takes half and hours to create RAID 10.After create completely,it will ask to reboot to finish create RAID10.

**2-5:Create a“RAID Ready” System into" RAID 0" with two Hard Drives by ‘Create RAID Volume ’.**

Step 1: Install Vista OS with one SATA HDD.
Step 2: Shut down the system,then add another two serial ATA hard drives in the system.
Step 3: Boot to OS desktop, open the Intel® Matrix Storage Console.
Step 4: Click on the by‘Create RAID Volume’ to create a RAID volume.

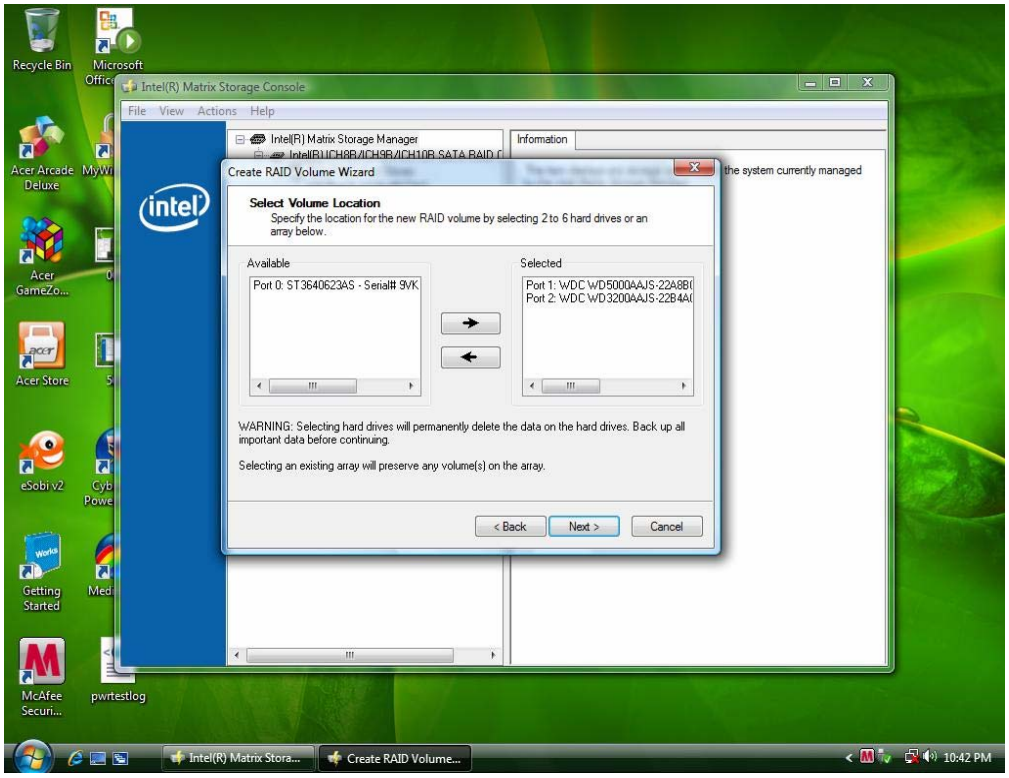



Picture16

Step 5: Click "Next" at create a RAID volume window.

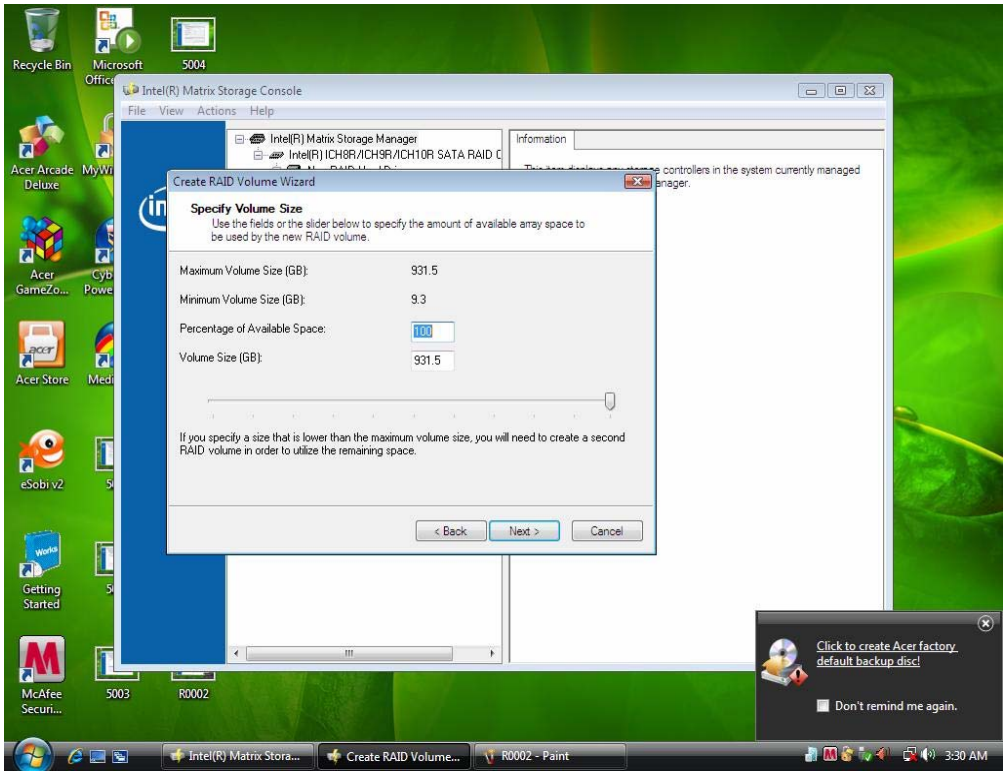
Step 6: Key the name in "Volume Name" and select "RAID 0" in RAID Level.

Step 7: At least select two HDDs as "Volume Location".




Picture17

Step 8: Specify Volume Size then press "next".




Picture18

Step 9: Press "next" to finish setup and start create RAID 0.

Step 10: It may takes half and hours to create RAID 0.After create completely,it will ask to reboot to finish create RAID 0.

# Intel RAID SOP

## 1. INTEL® MATRIX STORAGE TECHNOLOGY CHECK (DOS)

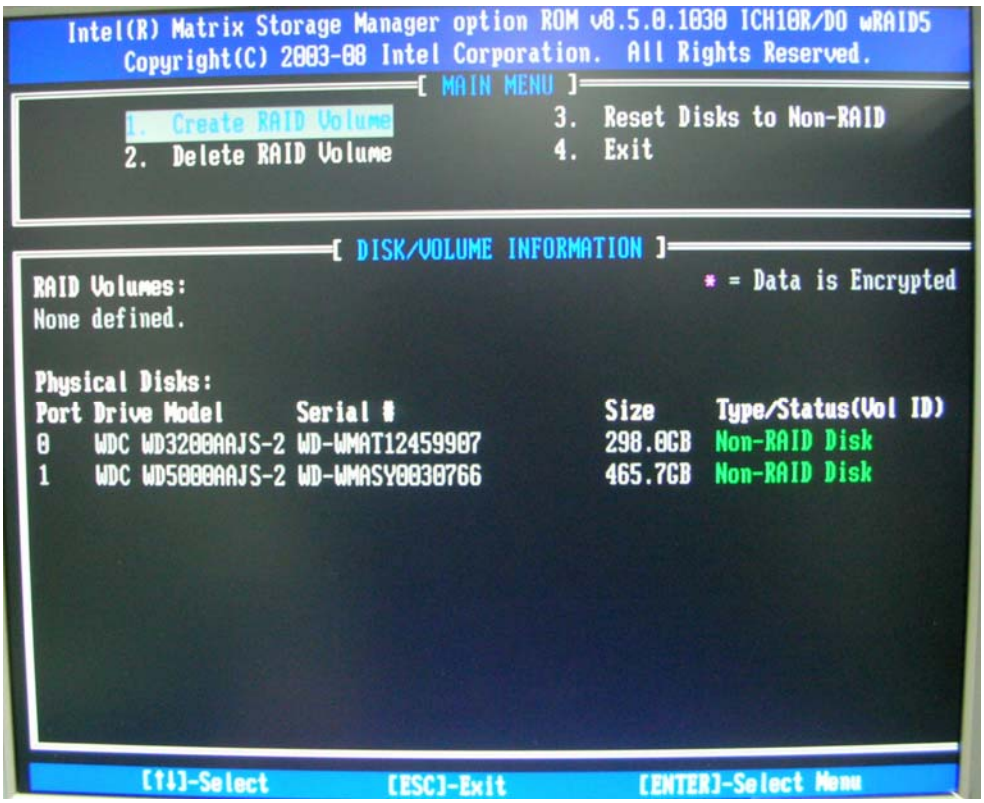
### 1-1: Create SATA RAID 0

Step 1: Shut down the EUT, unplug the power cable,connect two SATA HDDS to EUT , check the EUT all devices are connect/plug ok

Step 2: Press "PWR-BTTN" to power on the EUT,Load BIOS default setting .

Step 3: At "Integrated_Peripherals" page "OnChip SATA Type" item set is as "RAID" mode,save and exit.

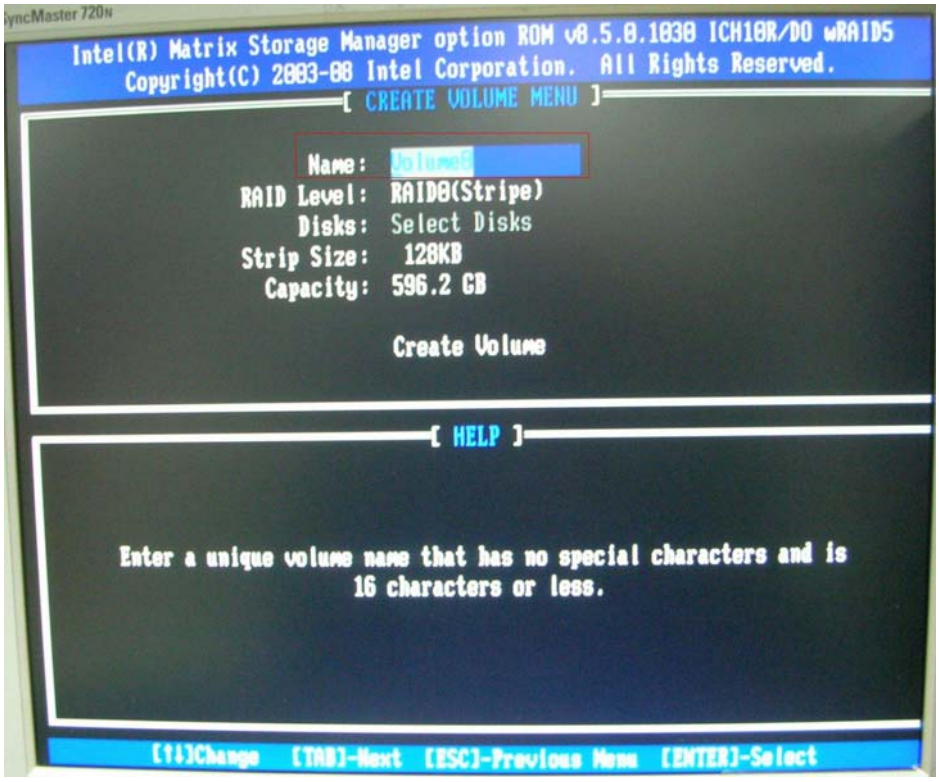
Step 4: During BIOS post, press <Ctrl-I> to enter into Intel RAID setup utility,as picture1.




Picture1

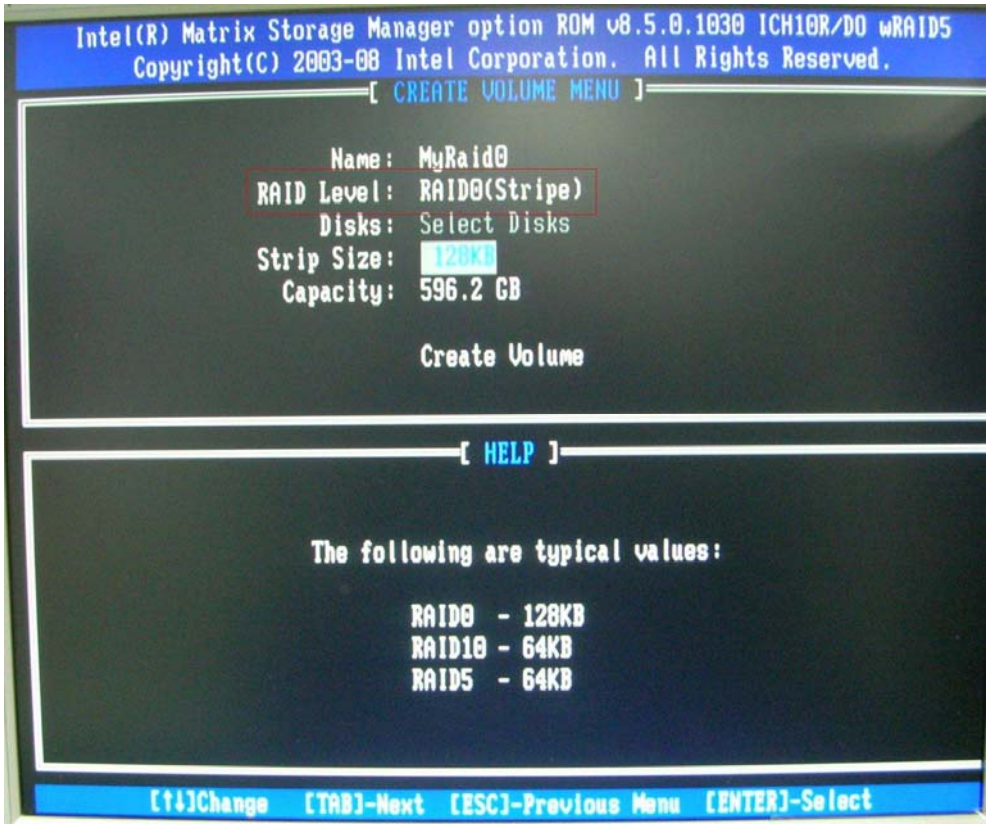
Step 5: Select "1" to enter create RAID mode ,if there is no enough avalable space (there was exist a Raid , delete it ).

Step 6: Create RAID 0 Mode,enter the RAID name,such as "MyRaid0",default is"Volume0".



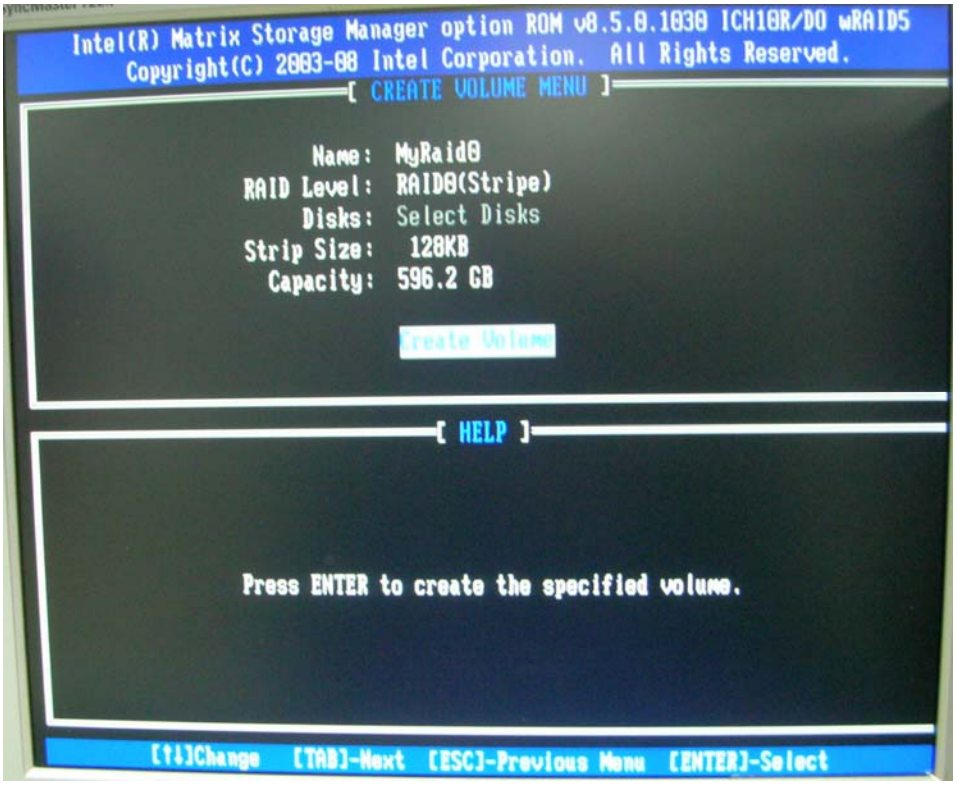

Picture2

Step 7: Select "RAID0(Stripe)" at "RAID Level".



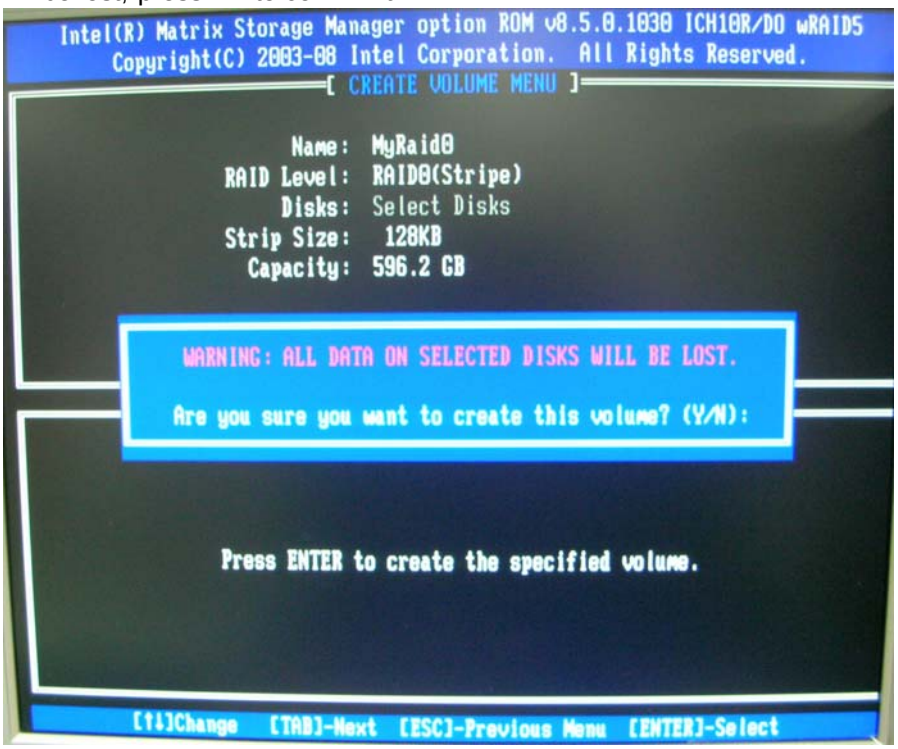

Picture3

Step 8: You can select the "Strip Size" and define RAID capacity in "Capactity".




Picture4

Step 9: Press "Create Volume" to create RAID0,it will pop the warning message that all data will be lost,"press "Y" to confirm it.

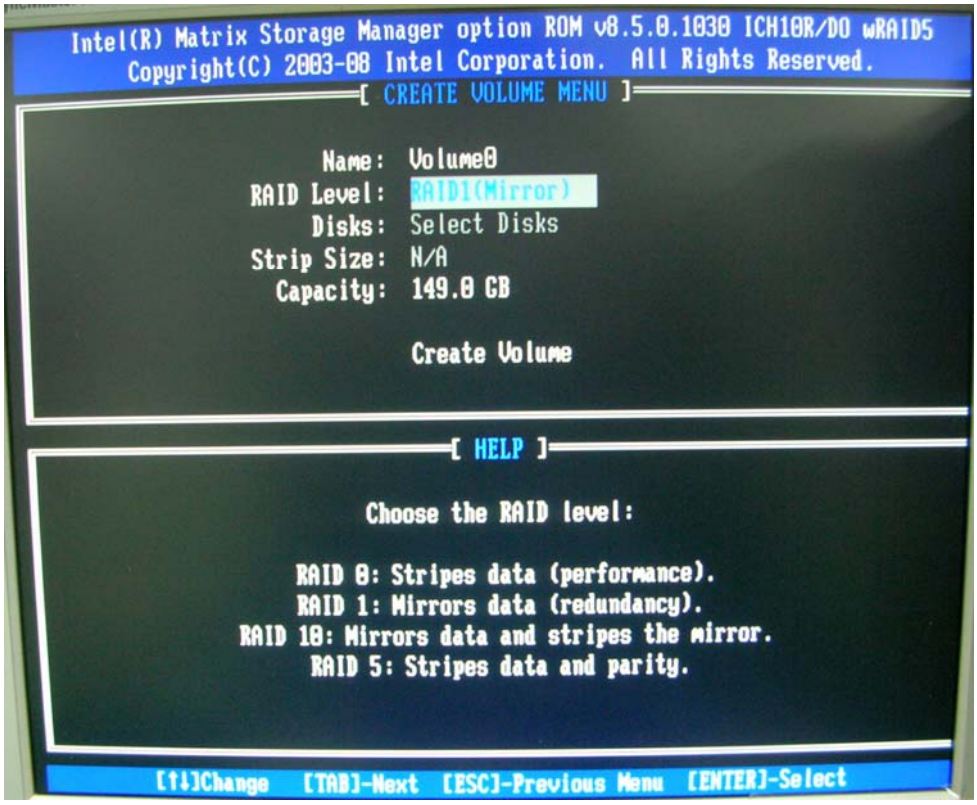



Picture5

Step 10: It will back to create RAID interface,then press "ESC" or select 4 to exit and install OS.

**1-2: Create SATA RAID 1**

| | |
|---|---|
| Step 1: | Shut down the EUT, unplug the power cable,connect two SATA HDDS to EUT , check the EUT all devices are connect/plug ok |
| Step 2: | Press "PWR-BTTN" to power on the EUT,Load BIOS default setting . |
| Step 3: | At "Integrated_Peripherals" page "OnChip SATA Type" item set is as "RAID" mode,save and exit. |
| Step 4: | During BIOS post, press <Ctrl-I> to enter into Intel RAID setup utility. |
| Step 5: | Select "1" to enter create RAID mode ,if there is no enough avalable space (there was exist a Raid , delete it ). |
| Step 6: | Create RAID 1 Mode,enter the RAID name,such as "MyRaid1",default is"Volume0". |
| Step 7: | Select "RAID1(Mirror)" at "RAID Level". |




Picture6

| | |
|---|---|
| Step 8: | You can select the "Strip Size" and define RAID capacity in "Capactity". |
| Step 9: | Press "Create Volume" to create RAID1,it will pop the warning message that all data will be lost,"press "Y" to confirm it. |
| Step 10: | It will back to create RAID interface,then press "ESC" or select 4 to exit and install OS. |

### 1-3: Create SATA RAID 5

Step 1: Shut down the EUT, unplug the power cable,connect three SATA HDDS to EUT , check the EUT all devices are connect/plug ok

Step 2: Press "PWR-BTTN" to power on the EUT,Load BIOS default setting .

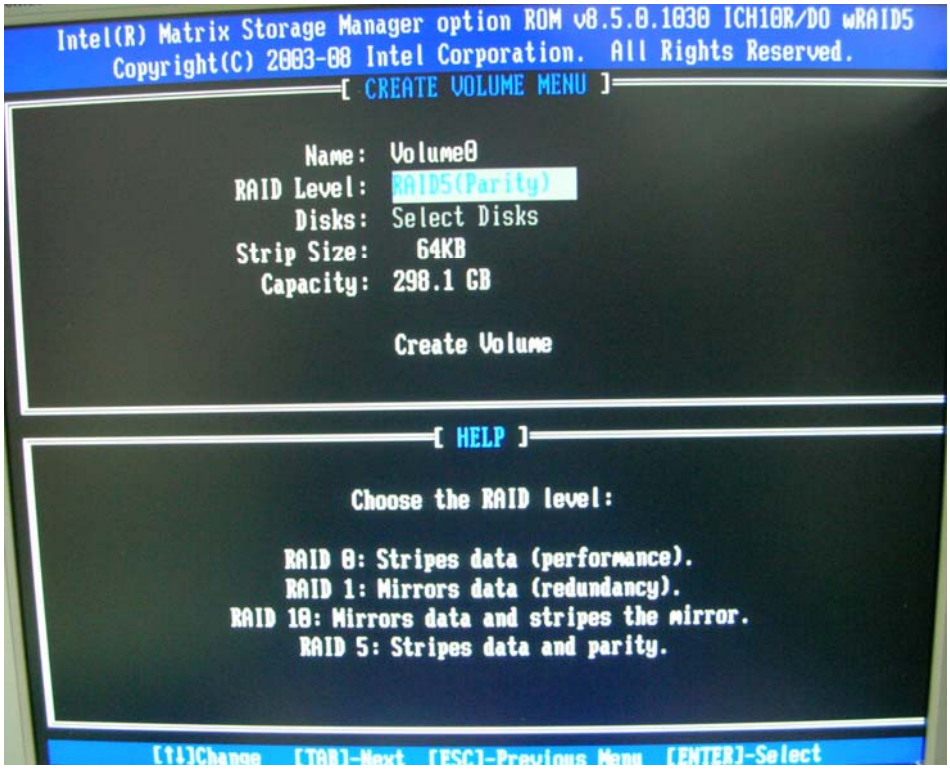
Step 3: At "Integrated_Peripherals" page "OnChip SATA Type" item set is as "RAID" mode,save and exit.

Step 4: During BIOS post, press <Ctrl-I> to enter into Intel RAID setup utility.

Step 5: Select "1" to enter create RAID mode ,if there is no enough avalable space (there was exist a Raid , delete it ).

Step 6: Create RAID 5 Mode,enter the RAID name,such as "MyRaid5",default is"Volume0".

Step 7: Select "RAID5(Parity)" at "RAID Level".




Picture7

Step 8: You can select the "Strip Size" and define RAID capacity in "Capactity".

Step 9: Press "Create Volume" to create RAID5,it will pop the warning message that all data will be lost,"press "Y" to confirm it.

Step 10: It will back to create RAID interface,then press "ESC" or select 4 to exit and install OS.

### 1-4: Create SATA RAID 0+1

Step 1: Shut down the EUT, unplug the power cable,connect four SATA HDDS to EUT , check the EUT all devices are connect/plug ok

Step 2: Press "PWR-BTTN" to power on the EUT,Load BIOS default setting .

Step 3: At "Integrated_Peripherals" page "OnChip SATA Type" item set is as "RAID" mode,save and exit.

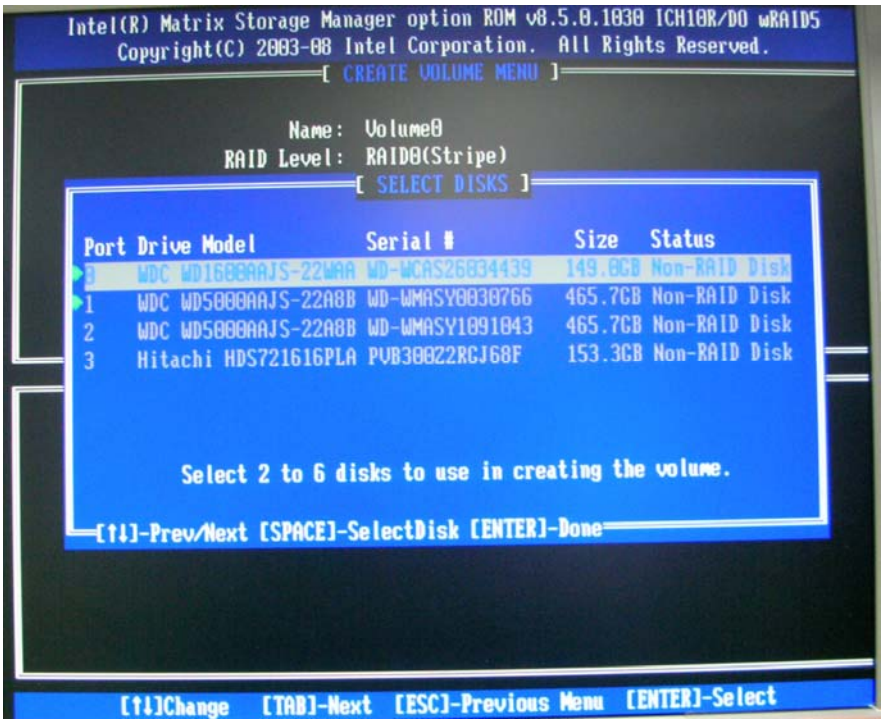
Step 4: During BIOS post, press <Ctrl-I> to enter into Intel RAID setup utility.

Step 5: Select "1" to enter create RAID mode ,if there is no enough avalable space (there was exist a Raid , delete it ).

Step 6: Create RAID 0+1 Mode,firstly create RAID 0 Mode,enter the RAID name,such as "MyRaid0+1",default is"Volume0".

Step 7: Select "RAID0(Stripe)" at "RAID Level".

Step 8: Select two HDDs in "Disk" by space key.




Picture8

Step 9: Press "Enter" to finish HDD selection and it will back to RAID creation interface.

Step 10: Repeat RAID1 creation step and exit,then install OS.

**2-6:Create a“RAID Ready” System into" RAID 1" with two Hard Drives by ‘Create RAID Volume ’.**

| | |
|---|---|
| Step 1: | Install Vista OS with one SATA HDD. |
| Step 2: | Shut down the system,then add another two serial ATA hard drives in the system. |
| Step 3: | Boot to OS desktop, open the Intel® Matrix Storage Console. |
| Step 4: | Click on the by‘Create RAID Volume’ to create a RAID volume. |
| Step 5: | Click "Next" at create a RAID volume window. |
| Step 6: | Key the name in "Volume Name" and select "RAID 1" in RAID Level. |
| Step 7: | At least select two HDDs as "Volume Location". |
| Step 8: | Specify Volume Size then press "next". |
| Step 9: | Press "next" to finish setup and start create RAID 1. |
| Step 10: | It may takes half and hours to create RAID 1.After create completely,it will ask to reboot to finish create RAID 1. |

**2-7:Create a“RAID Ready” System into" RAID 5" with two Hard Drives by ‘Create RAID Volume ’.**

| | |
|---|---|
| Step 1: | Install Vista OS with one SATA HDD. |
| Step 2: | Shut down the system,then add another three serial ATA hard drives in the system. |
| Step 3: | Boot to OS desktop, open the Intel® Matrix Storage Console. |
| Step 4: | Click on the by‘Create RAID Volume’ to create a RAID volume. |
| Step 5: | Click "Next" at create a RAID volume window. |
| Step 6: | Key the name in "Volume Name" and select "RAID 5" in RAID Level. |
| Step 7: | At least select three HDDs as "Volume Location". |
| Step 8: | Specify Volume Size then press "next". |
| Step 9: | Press "next" to finish setup and start create RAID 5. |
| Step 10: | It may takes half and hours to create RAID 5.After create completely,it will ask to reboot to finish create RAID 5. |

**2-8:Create a“RAID Ready” System into" RAID 10" with two Hard Drives by ‘Create RAID Volume ’.**

| | |
|---|---|
| Step 1: | Install Vista OS with one SATA HDD. |
| Step 2: | Shut down the system,then add another four serial ATA hard drives in the system. |
| Step 3: | Boot to OS desktop, open the Intel® Matrix Storage Console. |
| Step 4: | Click on the by‘Create RAID Volume’ to create a RAID volume. |
| Step 5: | Click "Next" at create a RAID volume window. |
| Step 6: | Key the name in "Volume Name" and select "RAID 10" in RAID Level. |
| Step 7: | At least select three HDDs as "Volume Location". |
| Step 8: | Specify Volume Size then press "next". |
| Step 9: | Press "next" to finish setup and start create RAID 10. |
| Step 10: | It may takes half and hours to create RAID 10.After create completely,it will ask to reboot to finish create RAID 10. |